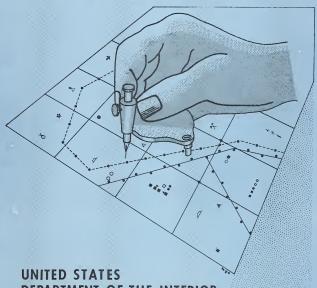
# MAP SYMBOL HANDBOOK



DEPARTMENT OF THE INTERIOR
Bureau of Land Management

Bayer 1 (1967) - 2 Maria many miles.

1. The Committee C

#1336345 9161-MAP SYMBOLS D: 88000563

165 . 2362

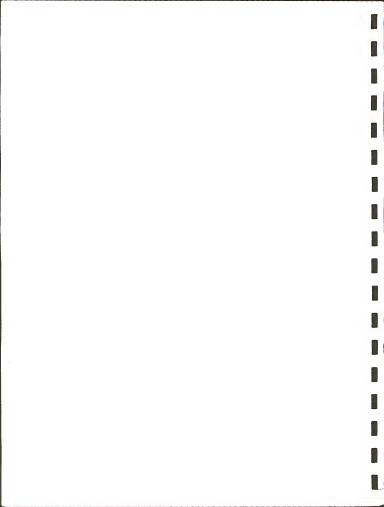
MAP SYMBOL HANDBOOK



Bureau of Land Management Bldg. 50, Denver Federal Center Denver, CJ 89225

MAY - 1966

BLM MANUAL MAY 6, 1966



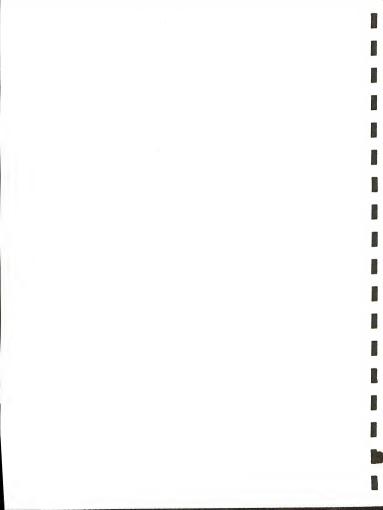
#### FOREWORD

THIS HANDBOOK HAS BEEN REVISED TO PROVIDE UPDATED, RE-EVALUATED AND NEW MAP SYMBOLIZATION FOR THE EMPLOYEES OF THE BUREAU OF LAND MANAGEMENT ENGAGED DIRECTLY OR INDIRECTLY IN MAP MAKING.

THESE MAP SYMBOLS HAVE BEEN SELECTED AFTER A REAPPRAISAL OF THE CURRENT STANDARD BUREAU MAP SYMBOLIZATION AND A THOROUGH AND OBJECTIVE CONSIDERATION OF ALL PROPOSED CHANGES AND ADDITIONS SUBMITTED.
A LARGE MAJORITY OF THE FIELD PROPOSALS WERE ADOPTED AND HAVE BEEN MADE PART OF THIS HANDBOOK. SYMBOLS WERE SELECTED TO REFLECT AND SATISFY OVERALL BUREAU FIELD AND OFFICE REQUIREMENTS.

WHEN NEEDED, MODIFICATIONS OR NEW SYMBOLS WILL BE ADDED TO THIS PUBLICATION AND WILL BE DATED TO FACILITATE READY REFERENCE.

ALL SYMBOLS CONTAINED IN THIS HANDBOOK ARE TO BE UTILIZED IN THE PREPARATION OF ALL STANDARD OR OFFICIAL BLM MAPS.



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SECTION — B. RANGE

SECTION - C. FORESTRY

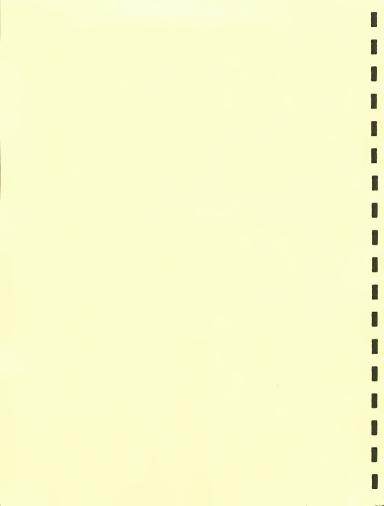
SECTION - D. RECREATION

SECTION - E. WILDLIFE

SECTION - F. MINERALS

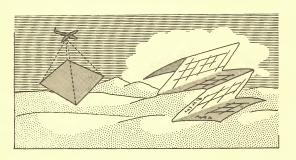
SECTION - G. RECORDS IMPROVEMENT

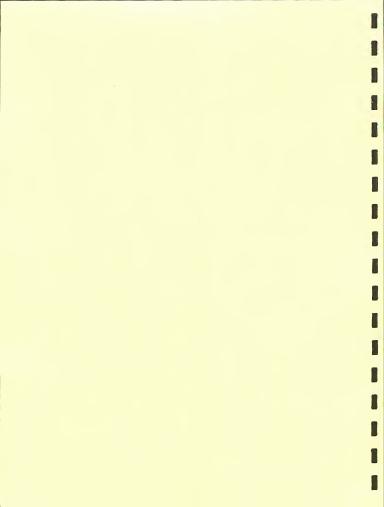
SECTION - H. LAND STATUS LEGEND



# SECTION

# CARTOGRAPHIC





# SECTION A INDEX

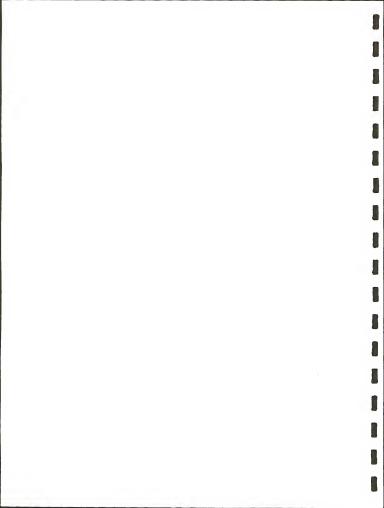
PART I General

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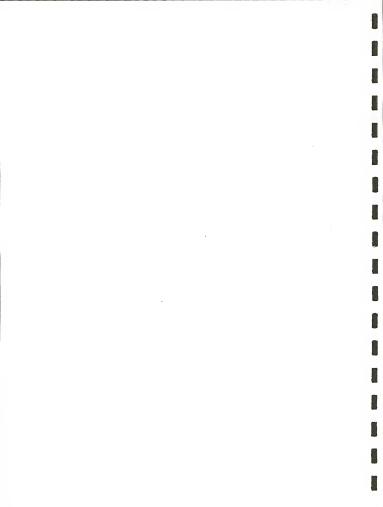
Identification and Delineation



PART

GENERAL

9161-MAP SYMBOLS



### A. INTRODUCTION

THE MAP SYMBOLS CONTAINED WITHIN <u>SECTION A</u> OF THE BUREAU MAP SYMBOL HANDBOOK RELATE TO AND WERE DESIGNED PRIMARILY FOR THE USE OF THE SERVICE CENTER CARTOGRAPHIC BRANCHES IN THEIR PREPARATION OF THE BUREAU'S BASIC MAP SERIES. THEIR USE, HOWEVER, IS NOT RESTRICTED OR LIMITED TO THE SPECIFIC NEEDS OF CARTOGRAPHIC PERSONNEL OR THE CONSTRUCTION OF THE BASIC MAP SERIES. ALL BUREAU PERSONNEL ARE REQUESTED TO UTILIZE THE SYMBOLS TO THE GREATEST EXTENT POSSIBLE WHEREVER THEY MAY BE APPLICABLE.

### B. CONTENTS

TO PROVIDE A SIMPLE YET EFFICIENT MEANS OF OBTAINING THE CARTOGRAPHIC SYMBOL INFORMATION DESIRED, <u>SECTION A</u> HAS BEEN DIVIDED INTO FOUR PARTS:

PART I GIVES GENERAL INFORMATION APPLICABLE TO THE SECTION.

PART II DESCRIBES IN DETAIL THE DRAFTING AND SCRIBING SPECIFICATIONS.

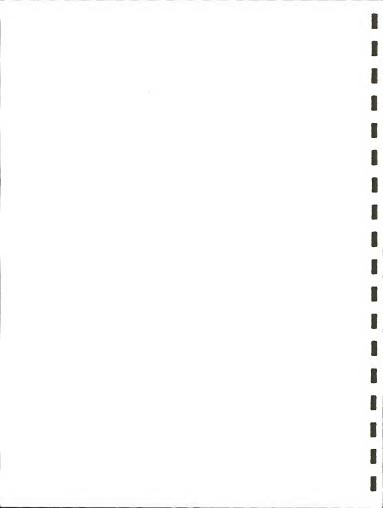
<u>PART III</u> DEPICTS THE PERTINENT ILLUSTRATIONS AND RELATED DATA.

<u>PART IV</u> DEFINES THE USE AND APPLICATION OF SPECIFIC MAP SYMBOLS IN CERTAIN TYPES AND ELEMENTS OF FIELD WORK.

SYMBOLS RELATING ONLY TO SPECIFIC ACTIVITIES CAN BE OBTAINED FROM THE APPROPRIATE SECTION WITHIN THIS HANDBOOK.

### C. SCRIBING PARTICULARS

TWO MODIFIED TYPES OF SCRIBING PROCESSES HAVE BEEN DESIGNED AND ADOPTED TO PRODUCE THE BUREAU'S FOUR TYPES OF BASIC MAPS. THEY ARE THE <u>MULTI-COLOR</u>, AND THE <u>SINGLE COLOR</u> SCRIBING PROCESSES--PLEASE SEE PART III FOR ELEMENTAL ILLUSTRATED SEQUENCE DIAGRAMS OF THE TWO PROCESSES.



EACH OF THE REQUIRED MAPPING SCALES--½ INCH, I INCH, AND 2 INCH-HAS A SPECIFIC UNIT UNDER PART III DEVOTED TO ITS INDIVIDUAL DRAFTING AND SCRIBING INSTRUCTIONS AND SPECIFICATIONS. IT SHOULD BE NOTED
THAT THOSE PAGES WITHIN THE ½ INCH SCALE UNIT WHICH ARE DESIGNATED
FOR USE ON <u>BLUE</u> OR <u>BLACK</u> PLATES: THE <u>BLUE PLATE</u> DENOTES THE FEATURES
TO BE PRINTED IN BLUE ON THE MULTI-COLOR IG" X 21" CUADRANGLE MAP, AND
THE <u>BLACK PLATE</u> DENOTES THE FEATURES TO BE PRINTED IN BLACK ON THE
SINGLE COLOR SERIES MAP. PAGES WITHIN THE ½ INCH SCALE UNIT DESIGNATED FOR <u>BLACK PLATE</u>, DENOTE PRINTING THE FEATURES IN BLACK FOR <u>BOTH</u>
THE MULTI-COLOR AND SINGLE COLOR MAPS.

### D. SPECIAL SYMBOL DEFINITIONS

### I. ALL WEATHER ROAD:

ONE WHICH CAN BE TRAVERSED ALL YEAR--ONLY UNUSUALLY ADVERSE WEATHER
CAN RESTRICT TRAVEL.

### 2. SEASONAL ROAD:

ONE ON WHICH USE IS USUALLY RESTRICTED TO GOOD WEATHER--SUBJECT TO AND AFFECTED ADVERSELY BY EROSION, RUTTING, MUDDY CONDITIONS, ETC.

### 3. PRIMITIVE ROAD:

ONE WHICH REQUIRES HIGH VEHICLE CLEARANCE OR 4-WHEEL DRIVE POWER OR BOTH.

### 4. EXISTING SECTION CORNER:

ONE WHICH HAS EVIDENCE OF ORIGINAL CORNER LOCATION IDENTIFICATION.

### 5. RECOGNIZED SECTION CORNER:

ONE WHICH IS ACCEPTED THROUGH LOCAL USAGE (e.g. FENCE CORNER, TIMBER CUTTING LINE, ETC.)



# П

DRAFTING AND SCRIBING
SPECIFICATIONS AND INSTRUCTIONS

PART



1/2"

SCALE

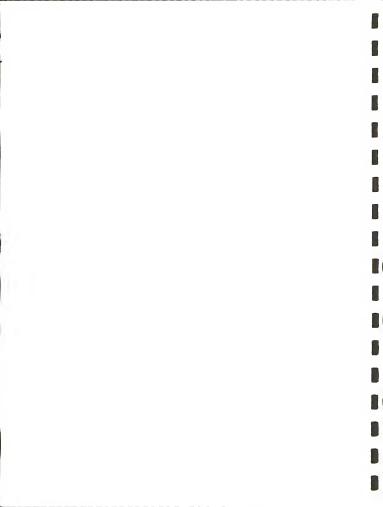
**SPECIFICATIONS** 



# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			BOUNDARIES		SCALE 1/2 INCH	
ITEM			SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS		
1	DISTRICT		.025"	SOLID LINE		STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.	
2	RESOURCE AREA AND 0&C MASTER UNIT		.017"	DASH	.50"	DITTO	
3	PLANNING UNIT		.017"	DASH	.30"	DITTO	
4	ALLOTMENT			DOT • SPACE	A3 .05"	NOT APPLICABLE ON COLOR QUADRANGLE MAP	
5	NATIONAL OR STATE		.015"	DASHES	.30" & .10"	STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC TION CORNER, CONTROL STATION, ETC.	
6	COUNTY		.012"	DASHES	.30" & .10"	DITTO	
7	LAND GRANT		.012"	DASH OOTS • SPACE	.30" A4 .05"	DITTO	
8	MISCELLANEOUS (RCA, RESERVATIONS, ETC.)		.012"	DASH —— DOT • SPACE	.30" A4 .05"	DITTO	

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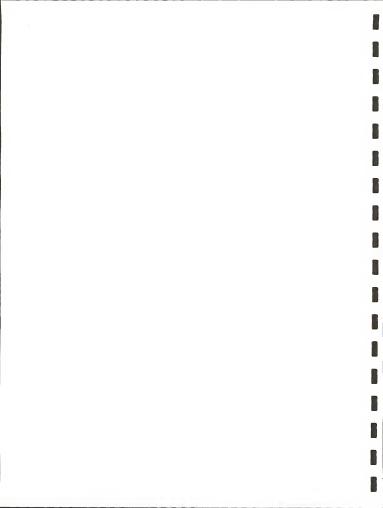


# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		BOUNDARIES		SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
9	PARK (STATE, COUNTY OR LOCAL)		.012"	DASH — SPACE	.20"	STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.
10	TOWNSHIP AND RANGE	SURVEYED PROTRACTED	.010"	SOLID LINE  DASH — SPACE	.15"	DASHES TO BE SCRIBED SO THAT CORNER INTERSECTIONS ARE EQUAL IN LENGTH
11	SECTION	SURVEYED PROTRACTED	.005"	SOLID LINE  DASH — SPACE	.10"	ОІТТО
12	SECTION STATUS SUBDIVISION		.004"	SOLID LINE		OMIT ON COLOR QUADS
13	MINERAL SURVEYS & DLC'S		.004"	SOLID LINE		EXTERIOR BDY. OF SOLID BLOCKS OR CLUSTERS. ONLY SHOW THOSE REQUIRED TO DEFINE BLM OWNERSHIP.
14	CONTINENTAL DIVIDE		.012"	DASH ——— SPACE	.40"	

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### DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		SCALE 1/2 INCH			
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
	SECTION CORNER EXISTENT (FOUND, PHOTO ID POSITIVE)	+++			A15	
16	SECTION CORNER EXISTENT (FOUND, PHOTO ID NOT POSITIVE)	<del>_</del> + + +				NOT APPLICABLE
17	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID POSITIVE)	+++			A15	ROTATE TEMPLET TO REQUIRED POSITION
18	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID NOT POSITIVE.)	4 + 4				NOT APPLICABLE
19	SECTION CORNER SEARCHED FOR NOT FOUND	<b>-</b>				NOT APPLICABLE
00	ROUTE MARKER INTERSTATE	70	. 003 "		"A" TEMPLET	PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION
21	ROUTE MARKERU.S.	40	.003"		"A" TEMPLET	DITTO
22	ROUTE MARKERSTATE	93)	. 003 "		"A" TEMPLET	DITTO

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		MAR	KERS AND MONUMENTS	5	SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
	BLM ROAD SYSTEM MARKER	1749	.003"		1	PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION	
	TRIANGULATION STATION	△ DOG	.008"	TRIANGLE $\Delta$	A28	PLACE DOT IN CENTER	
25	BENCH MARK	BM × 134	.008 "	CROSSBAR ◇◇	A34	ROTATE TEMPLET TO REQUIRED POSITION	
	PRECISE ALTIMETER ELEVATION	+ 134				NOT APPLICABLE	
27	SPOT ELEVATION (UNCHECKED)	× 134				NOT APPLICABLE	
28	REFERENCE POINT INDEPENDENT SURVEY HORIZONTAL OR VERTICAL	<b>□</b> 100				NOT APPLICABLE	
29	U. S. MINERAL OR LOCATION MONUMENT	<b>A</b>			A28		
30	BOUNDARY MONUMENT		. 008 "	SQUARE D	B16	PLACE DOT IN CENTER	

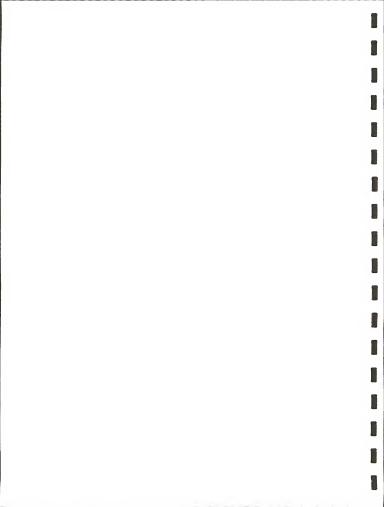
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		MA	RKERS AND MONU!	SCALE 1/2 INCH		
ITEM	FEATURE	SYMBOL	LINE SYMBO WEIGHT ELEMEN				INSTRUCTIONS
31	SECTION IDENTIFICATION	6					PLACE IN CENTER OF SECTIONS 1, 6, 31, & 36
32	AERIAL PHOTO CENTER (POSITION & I.D.)	1-3				В1	FIRST & LAST PHOTO PLUS EVERY FIFTH EXPOSURE IN EACH FLIGHT. (SHOW ONLY IF USED IN COMPILATION)
33	TOWNS AND CITIES (CORP. LIMIT BDY.)		.008"	BDY. SYM. • DASH SPACE	. 50		MULTI-COLOR MAPAPPLY ZIP TO IN- TERIOR ON NAME PLATE.     SINGLE-COLOR MAPAPPLY ZIP TO IN TERIOR ON NAME PLATE.
34	BLM OFFICE	Ē	.008"	BLDG. C BASE POLE C FLAG	B15 B13 B15		3. PLACEMENT OF NAME IN OR OUT OF BDY, IS OPTIONAL.

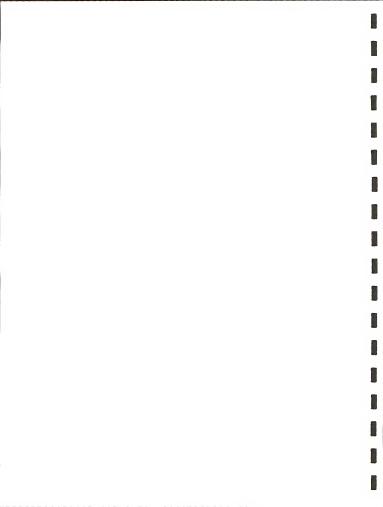
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

Г	BLACK PLATE		wo	ORKS AND STRUCTURES	SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
35	ALL WEATHER ROAD DIVIDED HWY.			O/A WIDTH O/A WIDTH	.025"	O/A DESIGNATES <u>OVERALL WIDTH</u>
36	SEASONAL USE ROAD	:		O/A WIDTH DASH = SPACE	.025" .075" .020"	DITTO
37	PRIMITIVE ROAD	inden die en e	.005"	O/A WIDTH DASH = SPACE INSERT =	.025" .075" .020" .025"	PLACE INSERTS WITHIN ALTERNATE DASHE
38	RAILROAD SINGLE TRACK		.005"	CROSSTIES -	A10	
39	RAILROAD DOUBLE TRACK		. 005 "	O/A WIDTH TIES: LENGTH D SPACE	.025" A21 A10	USE LONG SIDE OF A21
40	RAILROAD ABANDONED		. 005 "	DASH — CROSSTIES □ SPACE	. 15" A10 . 05"	
41	TRAIL		. 005 "	DASH – SPACE	.075"	
42	LIVESTOCK ROUTE (ESTABLISHED					NOT APPLICABLE

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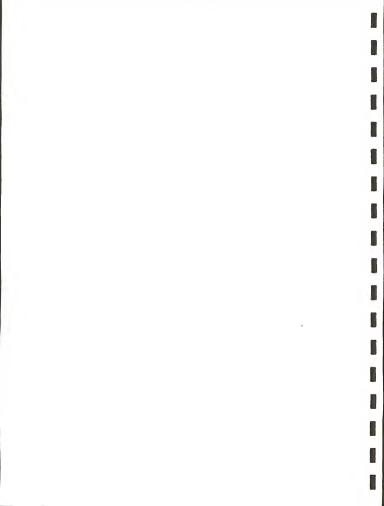


# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	RKS AND STRUC	SCALE 1/2 INCH		
ITEM	FEATURE	SYMBOL			DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
43	ROAD BRIDGE	)}.	.005"	TICKS	00		SHOW BRIDGES ACTUAL SIZE EXCEPT THOS LESS THAN .10" IN LENGTH
44	RAILROAD BRIDGE		.005"	TICKS	00	A15	DITTO
45	FOOT BRIDGE		.005"	TICKS	••	A15	DITTO
46	FERRY					A17	
47	ROAD FORD		.005"	DASH SPACE	=	.075"	
48	TRAIL FORD		.005"	DASH SPACE	-	.075"	
49	ROAD TUNNEL		.005"	O/A WIDTH TICKS DASH SPACE	* * * * * * * * * * * * * * * * * * *	.025" A15 .075" .020"	SHOW TUNNELS ACTUAL SIZE EXCEPT THOSE LESS THAN .10" IN LENGTH
50	RAILROAD TUNNEL	—+-)=(	.005"	O/A WIDTH TICKS DASH SPACE	°° °°	.025" A15 .075"	DITTO

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	RKS AND STRUC	CTURES		SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOI ELEMEN		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
51	FENCE (PROPOSED)	xxx					A DISTRICT SUPPLEMENTNOT PART OF PRINTED MAP	
52	FENCE	_ <del></del>	. 005 "	TICKS SPACE	8	A15	SHOW ONLY THOSE OBTAINED FROM FIELD (DISTRICT) EDIT	
53	ROAD FENCED ONE SIDE		.005″	TICKS SPACE	٠	A15 . 30 "	DITTO	
54	ROAD FENCED BOTH SIDES	- X X X	.005"	TICKS SPACE		A15	DITTO	
55	RAILROAD FENCED ONE SIDE		.005"	TICKS SPACE	۰	A15 BETWEEN TIES	DITTO	
56	RAILROAD FENCED BOTH SIDES	x + x + x + x + -x +-	.005"	TICKS SPACE	8	A15 BETWEEN TIES	DITTO	
57	CATTLEGUARD	x x)=(x x	.005"	O/A WIDTH LENGTH TICKS	**	A10 . 10" A15		
58	RECREATION SITE	Δ	.005"	L ARGE SMALL BASE		A28 A5 A26		

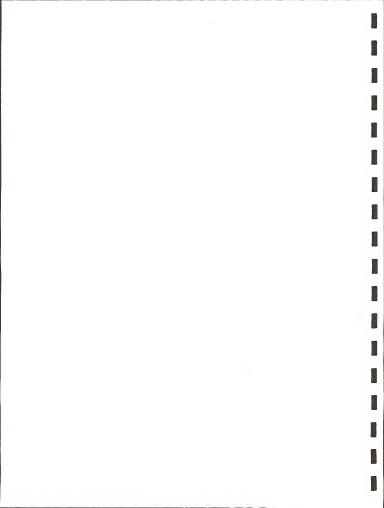
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	RKS AND STRU	JCTURES		SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBO ELEMEN		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
59	TANKS (LABEL AS TO TYPE)	• Ø	. 005 "	SMALL LARGE CROSSHATCH	0000 00 1 @ Ø	A1,2,3,0R 4 A13 OR 30 3 OR 4/45°		
	FIRE L.O. (PRIMARY)	<b>(A)</b>		CIRCLE	0	A30 A28		
60	& TRIANGULATION STA.	⊕ (NAME)	.005"	TRIANGLE DOT		A4		
	FIRE L.O. (SECONDARY)	©	.005"	L ARGE TR I ANGLE	8	A30 A28	ROTATE TEMPLET TO MAKE CROSS IN	
61	TRIANGULATION STA.		.005	SMALL CROSS	0 +	A2 A16	CENTER-SCRIBE LARGE CIRCLE FIRST	
62	FIRE TOOL CACHE	ú	.005″	BOX TOP	□ ♦	A16 A16	ROTATE TEMPLET TO 45° ANGLE	
63	BUILDINGS	16				USE APPRO- PRIATE TEM-	DEPICT ONLY THOSE BUILDINGS WHICH ADD VALUE OR UTILITY TO THE MAP, E.G. INDICATE SMALL SETTLEMENTS, POST OFFICES, SHELTER IN REMOTE AREAS, &	
64	BUILDINGS (ABANDONED)	10	.005"			DITTO	SIMILAR CATAGORIES.	
				BLDG.	0	A14		
65	SCHOOL.	ī	. 005 "	POLE FLAG		A2 1 A2 2	ROTATE TEMPLET TO REQUIRED POSITION	
66	CHURCH	i	.005"	BLDG.	0	A14 A21	ROTATE TEMPLET TO REQUIRED POSITION	
				CROSS	0	A14	RELEASE	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

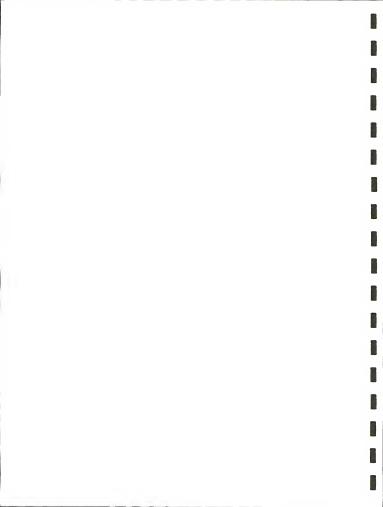
1	BLACK PLATE	WORKS AND STRUCTURES				SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMB( ELEMEI		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
67	SAWMILL	•	.005″	BLDG. BASE	0	A13 A26	† CIRCLE
68	SHELTER	Б	. 005"	TOP SIDES BASE	0 0 0	A26 A21 & A26 A26	
69	BLM RADIO INSTALLATION	à	. 005″	BLDG. ANTENNA	2	A7 A15	1. 。 2. 。 3. 。
70	AIRFIELD	,		GUIDES	Δ	B20 A TEMPLET (ST. HWY. SYM)	1. △ (PENCIL) 3. ♣ DO NOT SHOW RUNWAYS
71	AIRWAY BEACON	*		GUIDES	0	B3 A3	1. ⊚ (PENCIL) 3. ∰ 2. ⊗ 4. ★
72	OIL OR GAS WELLS	à ACTIVE ∂ INACTIVE	. 005 "	CIRCLE	0	A1 A29	DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.
		⊛ SMALL	. 005 "	BOUNDARY CROSS	0.0	A32 A27 & A14	ROTATE TEMPLET TO REQUIRED POSITION
73	CEMETERY	CEM LARGE	.005	BOUNDARY		ACTUAL SIZE	USE SHORT DASH FOR OUTLINE
74	MINE OR QUARRY	*	.005"	HANDLES HEADS	<b>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </b>	A34 A3	ROTATE TEMPLET TO REQUIRED POSITION
	DI M. MANITAL			PAGE 1	6.		RELEASE

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		WC	ORKS AND STRUCTURE	s	SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
75	CORRAL	C-	. 005 "	CIRCLE C	A13 A16		
76	RUINS (LABEL)	g SMALL	. 005 "	BOUNDARY	.05"X.05"	USE SOLID OUTLINE	
, ,		□ LARGE		BOUNDARY	ACTUAL SIZE	USE SHORT DASH FOR OUTLINE	
77	CLIFF DWELLING	Д	.005"	TOP -	A21	ROTATE TEMPLET TO REQUIRED POSITION	
				BASE -	A26		
78	GAGING STATION	•	.005"	CIRCLE O	A13	1. ○ 2. ⊕ 3. 9	
79	TELEPHONE OR TELEGRAPH LINE		. 005 "	POLE • SPACING	A3 . 40 "	SHOW ONLY WHEN NEEDED FOR ORIENTA- TION	
80	POWER TRANS. LINE	0	. 005 "	POLE • DASH □ SPACE	A3 A16 . 05 "	POLES SPACED EVERY 4 DASHES	
81	PIPE LINE		. 008 "	DASH — ENDS D SPACE	A10 A16 .05"		
82	ROAD GATE		. 008 "	BAR I ENDS: WEIGHT LENGTH	.10"		

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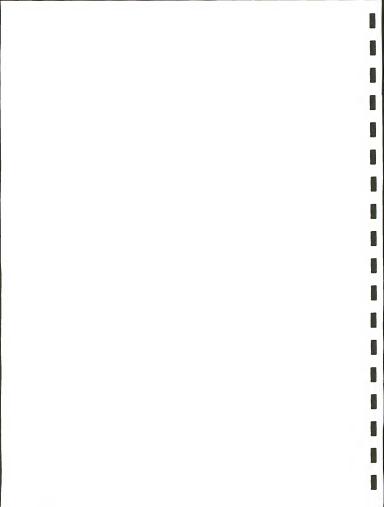


## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE OR BLUE PLA	wo	RKS AND STRUCTURES		SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
83	WINDMILL (SEE INSTRUCTIONS)	Å	. 005 "	CIRCLE 0 CROSSBAR △△	B1 B20	SCRIBE MILL SYMBOL ON BLACK PLATE, SCRIBE WELL SYMBOL ON BLUE PLATE.
	RESERVOIR OR RETENTION DAM	<u></u>		BODY: LENGTH WIDTH	. 10" . 025" A14	MINIMÚM SIZE GIVENSHOW ACTUAL SIZE IF LARGER
85	DETENTION DAM					NOT APPLICABLE
86	CHECK DAY	1				NOT APPLICABLE
87	DIVERSION DAM	4				NOT APPLICABLE
88	LARGE DAM	H	Y	BODY: LENGTH WIDTH	. 15 "	MINIMUM SIZE GIVENSHOW, ACTUAL SIZE IF LARGER
89	EARTH TANK OR CHARCO					NOT APPLICABLE
90	LOCATED OBJECT	•	.003"	CIRCLE O	A13	NAME OBJECT

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE OR BLUE PL	TE OR BLUE PLATE DRAINAGE AND WATER FEATURES		SCALE 1/2 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
	RIVER OR LARGE STREAM			SINGLE-COLOR MAP SHORELINE WATERLINE	.010"	
92	RIVER OR LARGE STREAM			MULTI-COLOR MAP SHORELINE WATER	.010" 1 TONE BLUE	ALL OPEN WATER AREAS ARE PRINTED IN ½ TONE BLUE ON MULTI-COLOR MAPS
93	PERENNIAL STREAM		.008" TO .012"	SOLID LINE		.008" IS MINIMUM WIDTHVARY TO MAXI- MUM OF .012" AS REQUIRED BY STREAM SIZES
94	INTERMITTENT STREAM OR WASH					NOT APPLICABLE ON ½" SCALE MAPS SHOW AS PERENNIAL
95	LAKE OR POND			SINGLE-COLOR MAP SHORELINE WATERLINE	.010"	
96	LAKE OR POND			MULTI-COLOR MAP SHORELINE WATER	.010" 1 TONE BLUE	
97	INTERMITTENT LAKE OR POND	(==)	. 010″	DASH — SPACE INTERIOR	.10" .05" ZIP #453	
98	DRY LAKE OR POND	22	.010"	DASH — SPACE INTERIOR	.10" .05" ZIP #20	MULTI-COLOR MAPAPPLY ZIP TO IN- TERIOR ON NAME PLATE.     SINGLE-COLOR MAPAPPLY ZIP TO IN- TERIOR ON NAME PLATE.

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

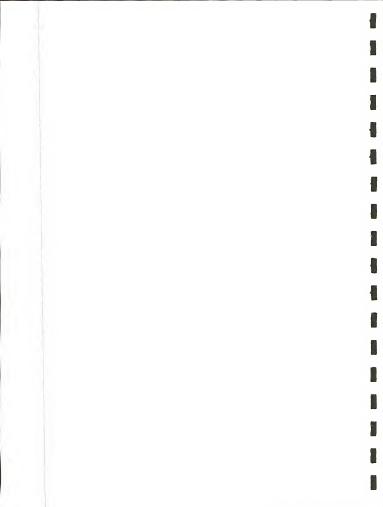
	BLACK PLATE OR BLUE PL	ATE	DRAINA	GE AND WATER	R FEATUR	ES	SCALE 1/2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBO ELEMEN		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
99	MARSH	Mic Off Miles		STIK-UP		ZIP #602	PLACE STIK-UP ON NAME PLATE	
100	SPRING (SEE INSTRUCTIONS)	0+	. 008 "	CIRCLE BAR ARROW	0		SHOW COMPLETE SYMBOL ON BLUE OR BLACK PLATE AS REQUIRED	
101	SPRING IMPROVED (SEE INSTRUCTIONS)	9	.008"	CIRCLE BODY WINGS BAR ARROW	0 0 0	A1 A19 A14 A26 A14	DITTO EXCEPT IMPROVEMENT SHOWN ON BLACK PLATE	
102	ARTESIAN WELL (SEE INSTRUCTIONS)	õ	.008 "	CIRCLE	0		SHOW COMPLETE SYMBOL ON BLUE OR BLACK PLATE AS REQUIRED	
103	WELL (SEE INSTRUCTIONS)	٥	.008"	CIRCLE	0	A1	DITTO	
104	AQUEDUCT TUNNEL	<b></b> ≠=	. 008 "	O/A WIDTH TICKS DASH SPACE	***	.025" A15 .075"	TUNNEL LENGTH ACTUAL SIZE SCRIBE TUNNEL ON BLACK PLATE	
105	DITCH OR CANAL		.008"	DASH ARROW SPACE	, , , , , , , , , , , , , , , , , , ,	. 25 " A29 . 05 "	DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP	
106	FLUME OR AQUEDUCT	<b>→→</b>	.008"	ARROW SPACING	Þ	A29	DITTO	

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		DRAINA	GE AND WATE	R FEATUR	ES	SCALE 1/2 INCH
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBO ELEMEN	OL N <b>T</b> S	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
107	LEVEE OR DIKE	пинитин	.004"	LINE	_	VARIABLE	
		-	-	HACHURES		A25	USE SIDES OF SQUARE
		-					



### DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

- 1	BLACK PLATE RELIEF FEATURES		SCALE 1/2 INCH			
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
	BLUFFS, CLIFFS, RIMS	465 FEFFE	. 004 "	VEE *		DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.
109	PROMINENT RIDGE TOP	Suppression allowers with the second	VARY .003" TO .005"			рітто
110	PROMINENT PEAK	<>>	VARY .003" TO .005"			DITTO
111	SAND			STIK-UP	ZIP #304	DITTO APPLY STIK-UP ON NAME PLATE
112	LAVA			STIK-UP	ZIP #669	DITTO

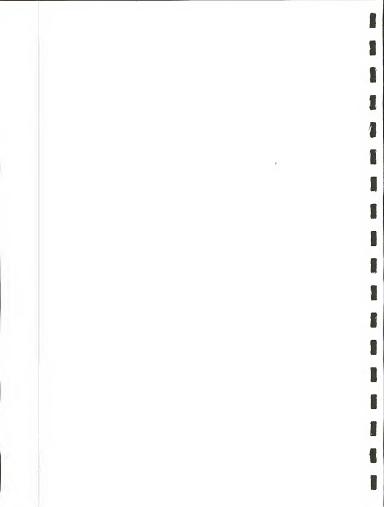
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### ONE-HALF (1/2) INCH SCALE MULTIPLE-COLOR SERIES MAP

		FEA	TURES		MONSEN NUMBERS	INSTRUCTIONS
BRIDGE CANAL CABIN CATTLE C CEMETERY CHURCH CLIFF DW CORRAL	TUNNEL MONUMENT  SUARD (LARGE)	FENCE NAME FIRE TOOL CACHE FORD FISH HATCHERY FOREST NURSERY FLUME GAGING STATION GATE HOUSE HATCHERY HIWAY NAME LOOKOUT NAME LEVEE LIGHTHOUSE LIVESTOCK ROUTE LODGE LANDING FIELD MILL	MINE OIL OR GAS WELL PIPELINE POWERHOUSE POWERLINE PIER PRIVATE CAMP NAME QUARRY RADIO INSTALLATION RAILROAD ROAD NAME RESERVOIR RANCH REFERENCE PT. RECREATION SITE RESORT WELL (TYPE OR NAME)	TRAIL NAME U.S. MINERAL OR LOCATION MONUMENT WATER TANK WINDMILL	346K6-51	
ARROYO BAR BASIN BEACH BENCH BEND BLUFF BOTTOM BUTTE CANYON	CAPE CAVES CLIFF COULEE CRAGS CRATER CREST DIVIDE DRAW FLAT	GAP GORGE GULCH HEAD HILL HOLLOW ISLAND KNOB KNOLL LAVA BED	LEDGE MEADOW MDW. MESA MOUNTAIN MTN. MOUNTAIN RANGE PASS PEAK PK. PEN INSULA PLAIN PLATEAU POINT PT.	PRAIRIE RAVINE RIDGE RIM ROCK SADDLE SAND AREA SPUR SUMMIT VALLEY	SMALL 206J6L MEDIUM 206J8 LARGE 206J12 VERY LARGE 206J18	THE LARGE AND VERY LARGE LETTERING CLASSIFICATIONS SHOULD BE USED TO DESIGNATE ONLY THOSE DIVIDES, MOUNTAINS, RIDGES, VALLEYS, & MIN- RANGES WHICH ENCOMPASS LARGE AREAS, CONTINENTAL DIVIDE USE 205J18

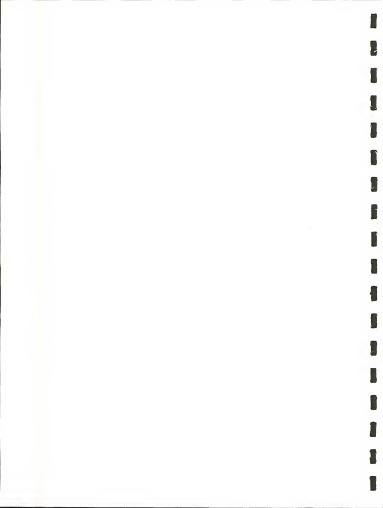
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ONE-HALF (1/2) INCH SCALE MULTIPLE-COLOR SERIES MAP

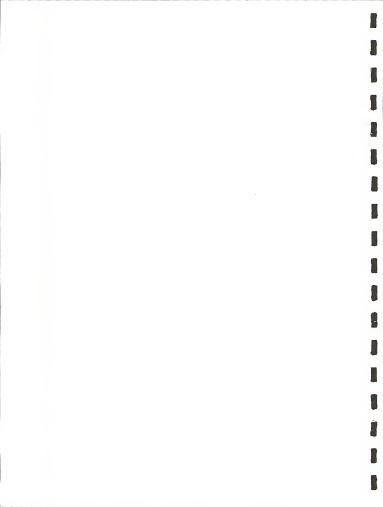
		FEATURES		MONSEN NUMBERS	INSTRUCTIONS		
BAY BRANCH BROOK COVE CREEK CR.	FALL GEYSER GLACIER INLET LAGOON	LAKE LK. LICK MARSH OR SWAMP POND RAPID	RIFFLE RUN SEEP SINK SLOUGH	SPRING SPR. WALLOW WASH WATER HOLE	SMALL 289K5L MEDIUM 289K6L		
LARGE CREEK	AND SMALL F	RIVER			289K8L		
GULF LAI	RGE LAKE	LARGE RIVER			289K8		
OCEAN ST	RAIT	SOUND			289K18 T0 289K30	VARY AS REQUIRED BY AREA SIZE.	
DISTRICT BOX	JNDARY				420A12	PLACE NAME EITHER	
RESOURCE ARE	EA AND O&C M	MASTER UNIT BOUNDARY	,		420A11	ON BOUNDARY LINE OR WITHIN AREA- WHICHEVER IS THE	
PLANNING UNI	IT BOUNDARY				420A10	BEST SOLUTION FOR IDENTIFICATION AND	
ALLOTMENT B	OUNDARY			NOT APPLICABLE	CLARITY.		
NATIONAL OR	STATE BOUND	DARY	420A9				
COUNTY BOUNI	DARY				420A8		

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ONE-HALF (1) INCH SCALE MULTIPLE-COLOR SERIES MAP

FEATURES	MONSEN NUMBERS	INSTRUCTIONS	
LAND GRANT BOUNDARY	420A7	PLACE NAME EITHER ON BOUNDARY LINE	
MISC. (INDIAN RESERVATIONS, NATIONAL MONUMENT, NATIONAL FOREST, RCA, OTHERS) BOUNDARY	420A7	OR WITHIN AREA- WHICHEVER IS THE BEST SOLUTION FOR	
PARK BOUNDARY (COUNTY, STATE, OR FEDERAL)	SMALL 420A6 MEDIUM 420A8 LARGE 420A10	IDENTIFICATION AND CLARITY.	
STANDARD MERIDIANS AND PARALLELS; AND BASE LINES (CADASTRAL SURVEY)	420A7		
BENCH MARKS	340J6-1		
TOWN NAMES	SMALL 420-A8L MEDIUM 420-A11L LARGE 420-A13		
TOWNSHIP AND RANGE NUMBERS	340J12-6	SEE ILLUSTRATION #6 FOR PLACEMENT.	



ONE-HALF  $(\frac{1}{2})$  INCH SCALE MULTIPLE-COLOR SERIES MAP

FEATURES	MONSEN NUMBERS	INSTRUCTIONS
AERIAL PHOTO CENTER NUMBER	340J6-2	
SECTION NUMBERS	340J6-3	
STATE, FEDERAL, AND BLM ROUTE NUMBERS	204J6L	
FOREST AND RANGE TYPES	NOT APPLICABLE	
PRECISE ALTIMETER ELEVATIONS AND SPOT ELEVATIONS	NOT APPLICABLE	
1		

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ONE-HALF (1/2) INCH SCALE ONE-COLOR SERIES MAP

	FEATU	RES		LEROY GUIDES	INSTRUCTIONS
AERIAL PHOTO NO AIRPORT AIRWAY BEACON BENCH MARK BOUNDARY MONUME BRIDGE CABIN CATTLE GUARD CEMETERY (LARGE CHURCH CLIFF DWELLING CORRAL	DOCK FENCE NAME FIRE TOOL CACHE NT FISH HATCHERY FOREST NURSERY GAGING STATION GATE.	LOOKOUT NAME MILL MINE OIL OR GAS WELL PIER POWERHOUSE PRIVATE CAMP NAME QUARRY RADIO INSTALLATION RANCH RECREATION SITE REFERENCE PT.	RUIN SCHOOL SHELTER SKI AREA TANK (TYPE) TRIL STA. NAME TUNNEL NAME U.S. MINERAL OR LOCATION WATER TANK WELL (TYPE)	60V-C-000	
ARROYO CAPE BAR CAVE BASIN CLIFF BEACH COULE BENCH CRAFE BEND CRATE BOTTOM DIVID BUTTE DRAW CANYON FLAT	E HEAD HILL R HOLLOW ISLAND	LEDGE MEADOW MDW. MESA MOUNTAIN RANGE MOUNTAIN MTN. PASS PEAK PK. PEN INSULA PLAIN PLATEAU POINT PT.	PRAIRLE RAVINE RIDGE RIM ROCK SADDLE SAND AREA SPUR VALLEY	SMALL 60V-CL-000 OR 80V-CL-000 MEDIUM 100V-CL-00 OR 120V-CL-0 LARGE 140V-C-0 OR 175V-C-1 VERY LARGE 200V-C-2 OR 240V-C-2	THE LARGE AND VERY LARGE LETTERING CLASSIFICATIONS SHOUL BE USED TO DESIGNATE ONLY THOSE DIVIDES, MOUNTAINS, RIDGES, VALLEYS, AND MOUNTAI RANGES WHICH ENCOMPASS LARGE AREAS.  CONTINENTAL DIVIDE USE 240V-C-2

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RELEASE 9+28

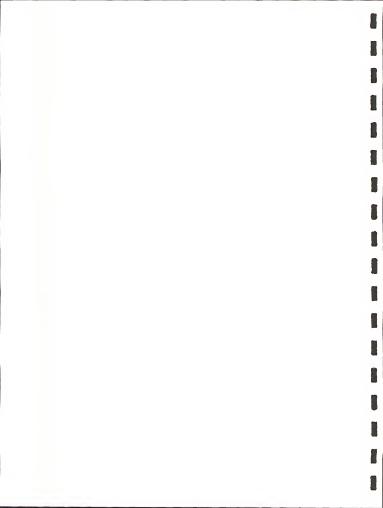


ONE-HALF  $(\frac{1}{2})$  INCH SCALE ONE-COLOR SERIES MAP

		FEATURES			LEROY GUIDES	INSTRUCTIONS	
BAY FALL BRANCH GEYSER BROOK GLACIER COVE INLET CREEK CR.LAGOON	LAKE LK. LICK MARSH OR SV POND RAPID	RIFFL RUN YAMP SEEP SINK SLOUG	WALLOW WASH WATER HOLE		SMALL 60S-CL-000 LARGE 80S-CL-000		
LARGE CREEK AND	SMALL RIVER				80S-C-000		
GULF LARGE [	AKE LÄRGE	RIVER			100S-C-00		
OCEAN STRAIT	Sound				140S-C-1 200S-C-2	VARY AS REQUIRED BY AREA SIZE	
AQUEDUCT AQUEDUCT TUNNEL CANAL DITCH	FORD I	LEVEE PIPELINE POWERLINE RAILROAD	ROAD NAME RESERVOIR TELEPHONE OR TELEGRAPH LINE	TRAIL NAME LIVESTOCK ROUTE	60S-C-000		
DISTRICT BOUNDARY				3242C-V-18PC 0- (FILL)	PLACE NAME EITHER ON BOUNDARY LINE OR WITHIN AREA-WHICHEVER IS THE BEST SOLUTION FOR IDENTIFICATION		
RESOURCE AREA AND O&C MASTER UNIT BOUNDARY			175V-C2				
PLANNING UNIT BOO	JNDARY				175V-CL-2	AND, CLARITY	

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RELEASE 9+28



ONE-HALF (1) INCH SCALE ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS	
ALLOTMENT BOUNDARY	140V-C-1	PLACE NAME EITHER ON BOUNDARY LINE OR WITHIN AREA-WHICHEVER IS THE BEST SOLUTION FOR IDENTIFICATION AND	
NATIONAL OR STATE BOUNDARY	140V-C-1		
COUNTY BOUNDARY	120V-C-1		
LAND GRANT BOUNDARY	100 V - CL - 0	CLARITY.	
MISC. (INDIAN RESERVATIONS, NATIONAL MONUMENT, NATIONAL FOREST, RCA, OTHERS) BOUNDARY	100V-C-0		
PARK BOUNDARY (COUNTY, STATE, OR FEDERAL)	SMALL 80V-C-000 MEDIUM 100V-C-00 LARGE 120V-CL-0		
TOWN NAMES	SMALL 100V-CL-00 MEDIUM 120V-CL-0 LARGE 120V-C-0	-	

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ONE-HALF (1/2) INCH SCALE ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS
TOWNSHIP AND RANGE NUMBERS	140V-C-1	SEE ILLUSTRATION #3 FOR PLACEMENT.
STANDARD MERIDIANS AND PARALLELS; AND BASE LINES (CADASTRAL SURVEY)	100V-C-00	
SECTION NUMBERS	60V-C-000	
STATE, FEDERAL, AND RLM ROUTE NUMBERS	MONSEN NO. 204J6L	
FOREST OR RANGE TYPES	NOT APPLICABLE	
PRECISE ALTIMETER ELEVATIONS AND SPOT ELEVATIONS	NOT APPLICABLE	
STATUS SYMBOL	60V-C-000	



1"

SCALE

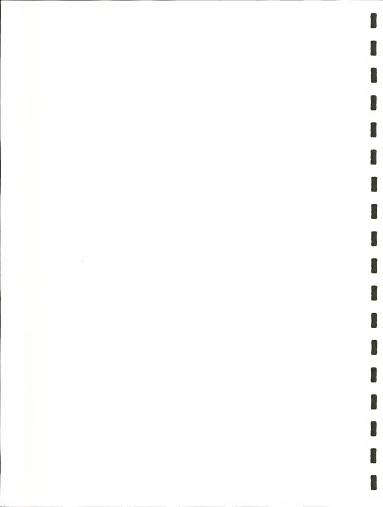
**SPECIFICATIONS** 



# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			BOUNDARIES		SCALE 1 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
1	DISTRICT		.025"	SOLID LINE		STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.	
2	RESOURCE AREA AND O&C MASTER UNIT		.020"	DASH ————————————————————————————————————	.75"	DITTO	
3	PLANNING UNIT		. 0 20 "	DASH ————————————————————————————————————	. 50 "	DITTO	
4	ALLOTMENT	• • • • • • • • • •		DOT • SPACE	A2	DITTO	
5	NATIONAL OR STATE		.017"	DASHES	.50" & .15"	DITTO	
6	COUNTY		.015"	DASHES — — — — SPACE	.50" & .15""	DITTO	
7	LAND GRANT		.015"	DASH DOTS • SPACE	. 50 " A3 . 05 "	рітто	
8	MISCELLANEOUS (RCA, RESERVATIONS, ETC.)		.015"	DASH	.50" A3	DITTO	

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			BOUNDARIES		SCALE 1 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
9	PARK (STATE, COUNTY OR LOCAL)		.015"	DASH —— SPACE	. 30"	STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.	
10	TOWNSHIP AND RANGE	SURVEYED PROTRACTED	.012"	SOLID LINE  DASH — SPACE	. 20"	DASHES TO BE SCRIBED SO THAT CORNER INTERSECTIONS ARE EQUAL IN LENGTH.	
11	SECTION	SURVEYED PROTRACTED	.008"	SOLID LINE  DASH SPACE	. 20 "	DITTO	
12	SECTION STATUS SUBDIVISION		.004"	SOLID LINE			
13	MINERAL SURVEYS & DLC'S		. 004"	SOLID LINE		EXTERIOR BDY. OF SOLID BLOCKS OR CLUSTERS. ONLY SHOW THOSE REQUIRED TO DEFINE BLM OWNERSHIP.	
14	CONTINENTAL DIVIDE		.015"	DASH	. 60"		

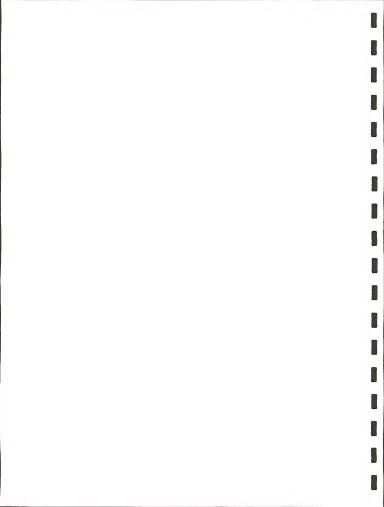
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		MAR	KERS AND MONUMENT	SCALE 1 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
15	SECTION CORNER EXISTENT (FOUND, PHOTO ID POSITIVE)	+++			A27	
10	SECTION CORNER EXISTENT (FOUND, PHOTO ID NOT POSITIVE)	<b>+ +</b>	. 008 "		A27	
17	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID POSITIVE)	+++			A27	ROTATE TEMPLET TO REQUIRED POSITION
	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID NOT POSITIVE)	+++	.008"		A27	DITTO
	SECTION CORNER SEARCHED FOR NOT FOUND	<b>-</b>				NOT APPLICABLE
20	ROUTE MARKER INTERSTATE	70	.005"		"A" TEMPLET	PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION.
21	ROUTE MARKERU.S.	(M)	.005"		"A" TEMPLET	DITTO
22	ROUTE MARKERSTATE	93)	.005"		"A" TEMPLET	DITTO

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		MAF	KERS AND MO	NUMENT	S	SCALE 1 INCH
ITEM	FEATURE	SYMBOL	LINE WEIGHT		SYMBOL ELEMENTS T		INSTRUCTIONS
	BLM ROAD SYSTEM MARKER	1749	. 005"				PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION
	TRIANGULATION STATION	△ DOG	.010″	TRIANGLE DOT	Δ	B19	PLACE DOT IN CENTER
25	BENCH MARK	BM × 134	.010"	CROSSBAR	$\Diamond \Diamond$	B14	ROTATE TEMPLET TO REQUIRED POSITION
	PRECISE ALTIMETER ELEVATION	+ 134					NOT APPLICABLE
27	SPOT ELEVATION (UNCHECKED)	X 134					NOT APPLICABLE
28	REFERENCE POINT INDEPENDENT SURVEY HORIZONTAL OR VERTICAL	□ 100	.010"	SQUARE DOT		B15	PLACE DOT IN CENTER
29	U.S. MINERAL OR LOCATION MONUMENT	<b>A</b>				B19	
30	BOUNDARY MONUMENT	-0-	.010"	SQUARE DOT		B15	PLACE DOT IN CENTER

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

- 1	BLACK PLATE		MA	RKERS AND MO	NUMENT	rs	SCALE 1 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
3 1	SECTION IDENTIFICATION	6					PLACE IN CENTER OF SECTION NUMBER ALL SECTIONS.	
32	AERIAL PHOTO CENTER (POSITION & I.D.)	• 1 - 3				В1	SHOW ONLY THAT PHOTOGRAPHY USED IN ORIGINAL MAPPING OR EXTENSIVE AUXILIARY MAPPING.	
33	TOWNS AND CITIES (CORP. LIMIT BDY.)		.010"	BDY. SYM.  DASH — SPACE INTERIOR	•	DOT A4 .50" .10" ZIP #23	OUTLINE LIMITS OF TOWN OR CITY     APPLY ZIP TO INTERIOR ON NAME PLATE.	
34	BLM OFFICE	, P	.008"	BLDG. BASE POLE FLAG		B15 B13 B15 B16	3. PLACEMENT OF NAME IN OR OUT OF BOUNDARY IS OPTIONAL.	
	ì		1	i i			1	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

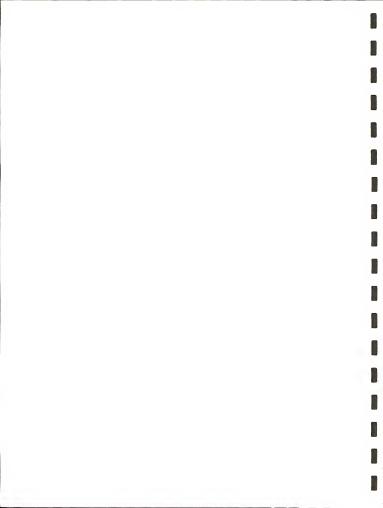
	BLACK PLATE		WORKS AND STRUCTURES			SCALE 1 INCH
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
	ALL WEATHER ROAD		.005″	O/A WIDTH	.025"	O/A DESIGNATES OVERALL WIDTH
35	DIVIDED HWY.	<	. 005 "	O/A WIDTH	. 045 "	O/A DESIGNATES OVERALL WIDTH
36	SEASONAL USE ROAD		.005"	O/A WIDTH DASH =	.025"	DITTO
37	PRIMITIVE ROAD	documber day on proper server	. 005 "	SPACE  O/A WIDTH  DASH =  SPACE INSERT =	.020" .025" .075" .020" .025"	PLACE INSERTS WITHIN ALTERNATE DASHES
38	RAILROAD SINGLE TRACK		.005"	CROSSTIES ==	A10	
39	RAILROAD DOUBLE TRACK	+	.005"	O/A WIDTH TIES: LENGTH U SPACE	.025" A21 A10	USE LONG SIDE OF A21
40	RAILROAD ABANDONED		.005"	DASH — CROSSTIES == SPACE	. 15" A10 . 05"	
41	TRAIL		.005"	DASH — SPACE	.075"	
42	LIVESTOCK ROUTE (ESTABLISHED)		.008"	DASH == INSERT == SPACE	A10 .10" .10"	PLACE IN CENTER OF SPACE

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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND STRU	SCALE 1 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOI ELEMEN		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
43	ROAD BRIDGE		.005″	TICKS	00		SHOW BRIDGES ACTUAL SIZE EXCEPT THOSE LESS THAN .10" IN LENGTH
44	RAILROAD BRIDGE		.005"	TICKS	00	A15	DITTO
45	FOOT BRIDGE		.005"	TICKS	00	A15	DITTO
46	FERRY					A17	
47	ROAD FORD	+	.005"	DASH SPACE	=	.075"	
48	TRAIL FORD		.005"	DASH SPACE	=	.075"	
49	ROAD TUNNEL		.005"	O/A WIDTH TICKS DASH SPACE	**	.025" A15 .075" .020"	SHOW TUNNELS ACTUAL SIZE EXCEPT THOSE LESS THAN .10" IN LENGTH
50	RAILROAD TUNNEL	- <del></del>	.005"	O/A WIDTH TICKS DASH SPACE	*** *** ***	.025" A15 .075" .020"	DITTO
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

- 1	BLACK PLATE		WO	RKS AND STRUC	SCALE 1, INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBO! ELEMEN		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
51	FENCE (PROPOSED)	_×××-					A DISTRICT SUPPLEMENT NOT PART OF PRINTED MAP
52	FENCE		.005"	TICKS SPACE	8	A15	SHOW ONLY THOSE OBTAINED FROM FIELD (DISTRICT) EDIT
53	ROAD FENCED ONE SIDE		.005"	TICKS SPACE	۰	A15	DITTO
54	ROAD FENCED BOTH SIDES	-x · x x x-	.005"	TICKS	0	A15	DITTO
55	RAILROAD FENCED ONE SIDE		.005"	TICKS SPACE	٥	A15 BETWEEN TIES	DITTO
	RAILROAD FENCED BOTH SIDES		. 005 "	TICKS	0	A15 BETWEEN TIES	DITTO
57	CATTLEGUARD	-x )=( x-	.005"	O/A WIDTH LENGTH TICKS	**	A10 A10 A15	
58	RECREATION SITE		.005"	LARGE SMALL BASE	Δ •	B19 A24 A10	

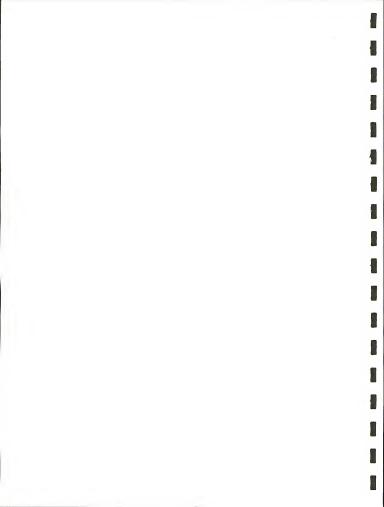
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND STR	UCTURES		SCALE 1 INCH
ITEM	FEATURE	SYMBOL	LINE WEIGHT		SYMBOL ELEMENTS T		INSTRUCTIONS
59	TANKS (LABEL AS TO TYPE)	• Ø	.005"	SMALL LARGE CROSSHATCH	000 Ø Ø	A1,2, OR 3 A13 OR 30 3 OR 4/45°	
60	FIRE L.O. (PRIMARY)	<b>(A)</b>	. 005 "	CIRCLE TRIANGLE	8	B4 B19	
	TRIANGULATION STA.	(NAME)		DOT		A4	
61	FIRE L.O. (SECONDARY)	©	. 005"	LARGE TRIANGLE	$\Diamond$	B4 B19	ROTATE TEMPLET TO MAKE CROSS IN CENTER
0.	& TRIANGULATION STA.	( NAME )	.005	SMALL CROSS	0	B1 B16	SCRIBE LARGE CIRCLE FIRST.
62	FIRE TOOL CACHE	-	. 005 "	вох		A32	ROTATE TEMPLET TO REQUIRED POSITION
02		_		TOP	$\Diamond$	A32	
63	BUILDINGS	. n II III be				USE APPRO- PRIATE TEM- PLET SIZE	DEPICT ONLY THOSE BUILDINGS WHICH ADD VALUE OR UTILITY TO THE MAP, E.G INDICATE SMALL SETTLEMENTS, POST OFFICES, SHELTER IN REMOTE AREAS, &
64	BUILDINGS (ABANDONED)	000 CE	.005"			DITTO	SIMILAR CATAGORIES.
				BLDG.		A16	
65	SCH00L	i.	. 005 "	POLE FLAG	6	A19 A8	ROTATE TEMPLET TO REQUIRED POSITION
				BLDG.		A16	
66	CHURCH		.005"	POLE	0	A21	ROTATE TEMPLET TO REQUIRED POSITION
				CROSS	а	A14	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		SCALE 1 INCH				
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMB ELEME		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
67	SAWMILL	•	.005"	BLDG. BASE		A30 A10	1 CIRCLE
68	SHELTER	Ъ	.005″	TOP SIDES BASE	10 A	B20 A19 & A21 B20	
69	BLM RADIO INSTALLATION	ì	.005"	BLDG. ANTENNA	2	A16 A14	1. • 2. • 3. •
70	AIRFIELD	٨		GUIDES	Δ	B2O ST. HWY. SYM.	1. \( \text{(PENCIL)} \) 3. \( \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{3}}}}}}} DO NOT SHOW } \) 2. \( \text{\text{\text{\text{\text{\text{\text{\text{2}}}}}} RUNWAYS } \)
71	AIRWAY BEACON	*		GUIDES	0	B4 A3	1. ⊙ (PENCIL) 3. ∰ 2. ∰ 4. ★
72	OIL OR GAS WELLS	ACTIVE     O INACTIVE	.005"	CIRCLE	о Δ	A13 A28	DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.
73	CEMETERY	SE SMALL	.005"	BOUNDARY CROSS BOUNDARY	C) D0	A32 & A16	ROTATE TEMPLET TO REQUIRED POSITION USE SHORT DASH FOR OUTLINE
74	MINE OR QUARRY	*	.005"	HANDLES HEADS	00	B14	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND STR	UCTURES		SCALE 1 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	LINE SYMBOL TI		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
75	CORRAL	0~	.005"	CIRCLE GATE	С	B2 B16	ROTATE TEMPLET TO REQUIRED POSITION	
76	RUINS (LABEL)	SMALL	.005"	BOUNDARY		<del> </del>	USE SOLID OUTLINE	
77	CLIFF DWELLING	Д	. 005 "	TOP BASE		A26 A10		
78	GAGING STATION	•	.005"	CIRCLE	0	A30	1. 🔾 2. 🕀 3. 🦠	
79	TELEPHONE OR TELEGRAPH LINE		.005"	POLE SPACING	•	A2 .50″	SHOW ONLY WHEN NEEDED FOR ORIENTA-	
80	POWER TRANS. LINE	-•	.005"	POLE DASH SPACE		A2 A19 .05"	POLES SPACED EVERY 4 DASHES	
81	PIPE LINE		.008"	DASH ENDS SPACE		.25" A16 .05"		
82	ROAD GATE	<del>-</del>	.008"	BAR ENDS: WEIG		.10"		

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND STRUCTURES		SCALE 1 INCH
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
83	WINDMILL	Å	005"	CIRCLE °	B1 B20	
	RESERVOIR OR RETENTION DAM	-<		BODY: LENGTH WIDTH WINGS	. 15 " . 05 " A27	MINIMUM SIZE GIVENSHOW ACTUAL SIZE IF LARGER
85	DETENTION DAM	-		BODY: LENGTH WIDTH	. 15"	DITTO
86	CHECK DAM	-1-		BODY: LENGTH WIDTH	. 20 " . 05 "	DITTO
87	DIVERSION DAM	4.		BODY: LENGTH WIDTH	.15"	DITTO
88	LARGE DAM	H		BODY: LENGTH WIDTH	.20"	DITTO
89	EARTH TANK OR CHARCO	<b>©</b>	.008"	ENDS 00	B2 B15	
90	LOCATED OBJECT	•	.003"	CIRCLE O	A13 A4	NAME OBJECT

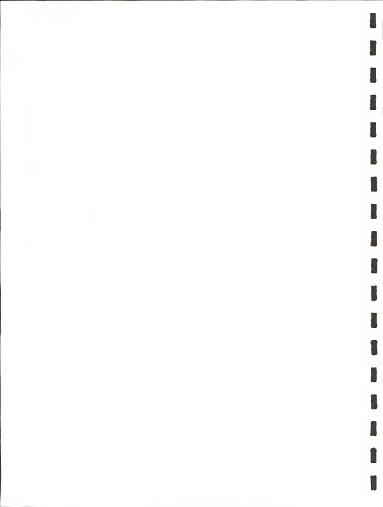
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# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		DRAINA	DRAINAGE AND WATER FEATURES		SCALE 1 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS		
	RIVER OR LARGE STREAM			SHORELINE WATERLINE	.010"			
92	PERENNIAL STREAM	>	.008"	SOLID LINE	.003	.008" IS MINIMUM WIDTHVARY TO MAXI- MUM OF .012" AS REQUIRED BY STREAM SIZES		
93	INTERMITTENT STREAM OR POND	J., ~	.008"	DASH	.40"			
94	LAKE OR POND			SHORELINE	.010"			
95	INTERMITTENT LAKE OR POND		.010"	DASH — SPACE	.15" .05" ZIP #453			
96	DRY LAKE OR POND		.010"	DASH — SPACE INTERIOR		OUTLINE AREA ON SCRIBE BASE     APPLY ZIP TO INTERIOR ON NAME     PLATE		
97	MARSH			STIK-UP	ZIP #602	PLACE STIK-UP ON NAME PLATE		
98	SPRING	o÷		CIRCLE O BAR   ARROW	A13 A34 A27			

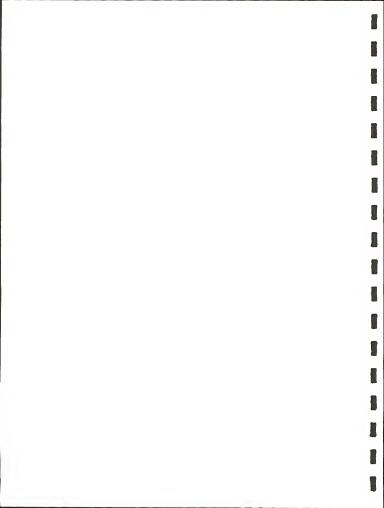
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		DRAINAGE AND WATER FEATURES			SCALE 1 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	s	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
99	SPRING IMPROVED	↔	.008"	CIRCLE BODY WINGS BAR ARROW	00000	A13 A26 A14 A26 A27	ROTATE TEMPLETS TO REQUIRED POSITIONS	
100	ARTESIAN WELL	8	.008"	CIRCLE	0	A13 A33		
101	WELL	0	.008"	CIRCLE	0	A13		
102	AQUEDUCT TUNNEL	<del></del> =	.008"	O/A WIDTH TICKS DASH SPACE	°° ==	.025" A15 .075"	LENGTH TO BE ACTUAL SIZE	
103	DITCH OR CANAL	7	1	DASH — ARROW SPACE	D		DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.	
104	FLUME OR AQUEDUCT		.008″	ARROW SPACING	▷	A28 .50"	DITTO	
105	LEVEE OR DIKE	mooning and the	.005″	LINE -	a	VARIABLE A15	DITTO USE SIDES OF SQUARE	
							-	

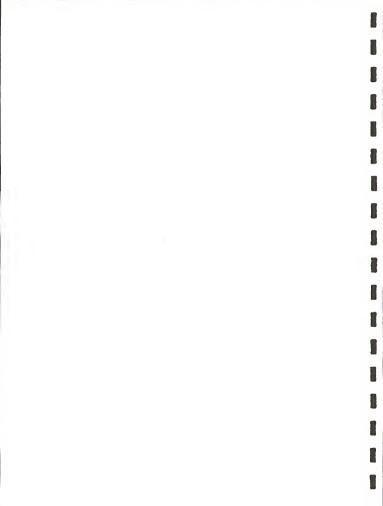
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			RELIEF FEATURES		SCALE J INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
	BLUFFS, CLIFFS, RIMS	***********	.005"	VEE v		DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.	
107	PROMINENT RIDGE TOP	Secretary Contraction		HACHURES	VARY .003" TO .005"	DITTO	
108	PROMINENT PEAK	<b></b>		HACHURES	VARY .003" TO .005"	рітто	
109	SAND			STIK-UP	ZIP #304	DITTO APPLY STIK-UP ON NAME PLATE	
110	LAVA			STIK-UP	ZIP #669	DITTO	

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#### 9161 - MAP SYMBOL LETTERING STANDARDS

#### ONE (1) INCH SCALE ONE-COLOR SERIES MAP

FEATURES					LEROY GUIDES	INSTRUCTIONS
AERIAL PHOTO NO. AIRPORT AIRWAY BEACON BENCH MARK BOUNDARY MONUMENT BRIDGE CABIN CATTLE GUARD CEMETERY (LARGE) CHURCH CLIFF DWELLING CORRAL		DAM (TYPE OR NAME) DOCK FENCE NAME FIRE TOOL CACHE FISH HATCHERY FOREST NURSERY GAGING STATION GATE HATCHERY HOUSE LANDING FIELO LIGHTHOUSE LODGE	LOOKOUT NAME MILL MINE OIL OR GAS WELL PIER POWERHOUSE PRIVATE CAMP NAME QUARRY RADIO INSTALLATION RANCH	RUIN SCHOOL SHELTER SKI AREA TANK (TYPE) TRI. STA. NAME TUNNEL NAME U.S. MINERAL OR LOCATION MONUMENT WATER TANK WELL (TYPE) WINDMILL	80V-C-000	
ARROYO BAR BASIN BEACH BENCH BEND BLUFF BOTTOM BUTTE CANYON	CAPE CAVE CLIFF COULEE CRAG CRATER CREST DIVIDE DRAW FLAT	GAP GORGE GULCH HEAD HILL HOLLOW I SLAND KNOB KNOLL LAVA BED	LEDGE MEADOW MOW. MESA MOUNTAIN RANGE MOUNTAIN MTN. PASS PEAK PK. PENINSULA PLAIN PLATEAU POINT PT.	PRAIRIE RAVINE RIDGE RIM ROCK SANDLE SAND AREA SPUR SUMMIT VALLEY	SMALL 80V-CL-000 00V-CL-000 MEDIUM 100V-CL-00 20V-CL-0 LARGE 140V-C-1 OR 175V-C-2 VERY LARGE 200V-C-2 TO 290V-C-2	THE LARGE AND VERY LARGE LETTERING CLASSIFICATIONS SHOULD BE USED TO DESIGNATE ONLY THOSE DIVIDES, MOUNTAINS, RIOGES, VALLEYS AND MOUNTAIN RANGES WHICH ENCOMPASS LARGE AREAS.  CONTINENTAL DIVIDE USE 290V-C-2

BLM MANUAL MAY 6, 1966 RELEASE 9+28



#### 9161 - MAP SYMBOL LETTERING STANDARDS

CEATIBEC

### ONE (1) INCH SCALE ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS	
BAY FALL LAKE LK. RIFFLE SPRING SPR. BRANCH GEYSER LICK RUN WALLOW BROOK GLACIER MARSH OR SWAMP SEEP WASH COVE INLET POND SINK WATER HOLE CREEK CR. LAGOON RAPIO SLOUGH	SMALL 80S-CL-000 LARGE 100S-CL-00		
LARGE CREEK AND SMALL RIVER	100S-C-00		
GULF LARGE LAKE LARGE RIVER	120S-C-0		
OCEAN STRAIT SOUND	175S-C-1 TO 240S-C-2	VARY AS REQUIRED BY AREA SIZE.	
AQUEDUCT FERRY LEVEE ROAD NAME TRAIL NAME AQUEDUCT TUNNEL FORD PIPELINE RESERVOIR LIVESTOCK CANAL FLUME POWERLINE TELEPHONE OR ROUTE DITCH HIWAY NAME RAILROAD TELEGRAPH LINE	80 S- C- 000		
DISTRICT BOUNDARY	3241K-V-24PC PLACE NAME EITHER No. 1-(Fill) BOUNDARY LINE OR		
RESOURCE AREA AND O&C MASTER UNIT BOUNDARY	3242C-V-18PC No. 00-(OPEN)	AREA-WHICHEVER IS THE BEST SOLUTION FOR IDENTIFICATION AND	
PLANNING UNIT BOUNDARY	3242C-V-18PL No. 00-(0PEN)	CLARITY.	

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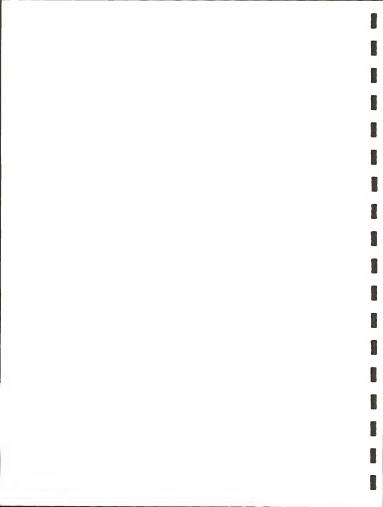


#### 9161 - MAP SYMBOL LETTERING STANDARDS

ONE (1) INCH SCALE ONE-COLOR SERIES MAP

LEROY GUIDES	INSTRUCTIONS	
175V-CL-1	PLACE NAME EITHER ON	
175V-C-2	BOUNDARY LINE OR WITHIN AREA-WHICHEVER IS THE BEST SOLUTION FOR IDENTIFICATION AND	
140V-C-0		
120V-CL-0	CLARITY.	
120V-C-0		
SMALL 100V-C-00 MEDIUM 120V-C-0 LARGE 140V-CL-1		
SMALL 100V-CL-00 MEDIUM 120V-CL-0 LARGE 140V-C-0		
	175V-CL-1 175V-C-2 140V-C-0 120V-CL-0 120V-C-0  ME01UM 120V-C-0 LARGE 140V-CL-1  SMALL 100V-CL-00 MED1UM 120V-CL-00 MED1UM	

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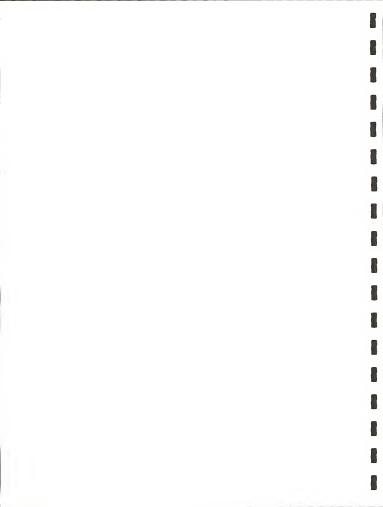


#### 9161 - MAP SYMBOL LETTERING STANDARDS

ONE (1) INCH SCALE ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS
TOWNSHIP AND RANGE NUMBERS	175V-C-2	
STANDARD MERIDIANS AND PARALLELS; AND BASE LINES (CADASTRAL SURVEY)	120V-C-0	
SECTION NUMBERS	80V-C-000	
STATE, FEDERAL AND BLM ROUTE NUMBERS	MONSEN NO. 204J6L	
FOREST OR RANGE TYPES	NOT APPLICABLE	
PRECISE ALTIMETER ELEVATIONS AND SPOT ELEVATIONS	NOT APPLICABLE	
STATUS SYMBOL	60V-C-000	

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2"

SCALE

**SPECIFICATIONS** 



## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			BOUNDARIES		SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
1	DISTRICT		.025"	SOLID LINE		STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.	
2	RESOURCE AREA AND O&C MASTER UNIT		.020"	DASHSPACE	1.00"	DITTO	
3	PLANNING UNIT		.020"	DASH	.75"	DITTO	
4	ALLOTMENT			DOT • SPACE	A2	DITTO	
5	NATIONAL OR STATE		.017"	DASHES	.75" & .20"	DITTO	
6	COUNTY		.015"	DASHES	.75" & .20"	DITTO	
7	LAND GRANT		.015"	DASH DOTS • SPACE	. 75 " A3 . 05 "	DITTO	
8	MISCELLANEOUS (RCA, RESERVATIONS, ETC.)		.015"	DASH DOT • SPACE	.75" A3 .05"	DITTO	

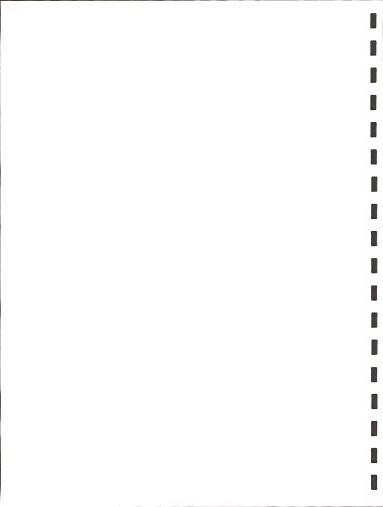
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			BOUNDARIES		SCALE 2 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS		
9	PARK (STATE, COUNTY OR LOCAL)		.015"	DASH	. 50	STRADDLES BOUNDARY LINEBREAK LINE FOR MAJOR FEATURES, E.G., FOUND SEC- TION CORNER, CONTROL STATION, ETC.		
10	TOWNSHIP AND RANGE	SURVEYED PROTRACTED	.012"	DASH SPACE	.40"	DASHES TO BE SCRIBED SO THAT CORNER INTERSECTIONS ARE EQUAL IN LENGTH.		
11	SECTION	SURVEYED PROTRACTED	.008"	DASH SPACE	. 40 "	DITTO		
12	SECTION STATUS SUBDIVISION		.004"	SOLID LINE				
13	MINERAL SURVEYS & DLC'S		. 004 "	SOLID LINE		EXTERIOR BDY. OF SOLID BLOCKS OR CLUSTERS. ONLY SHOW THOSE REQUIRED TO DEFINE BLM OWNERSHIP.		
14	CONTINENTAL DIVIDE		.015"	DASH ————————————————————————————————————	. 85 "			

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE	MARKERS AND MONUMENTS SCALE 2 INCH				
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
15	SECTION CORNER EXISTENT (FOUND, PHOTO ID POSITIVE)	+++			A32	-
16	SECTION CORNER EXISTENT (FOUND, PHOTO ID NOT POSITIVE)	1++	. 008 "		A32	
17	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID POSITIVE)				A32	ROTATE TEMPLET TO REQUIRED POSITION
18	SECTION CORNER RECOGNIZED (FOUND, PHOTO ID NOT POSITIVE)		.008"		A32	DITTO
19	SECTION CORNER SEARCHED FOR NOT FOUND		.008"		A30	
20	ROUTE MARKER INTERSTATE	70)	.005"		"A" TEMPLET	PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION.
21	ROUTE MARKERU.S.	<b>40</b> 3	.005"		"A" TEMPLET	DITTO
22	ROUTE MARKERSTATE	93)	.005"		"A" TEMPLET	DITTO

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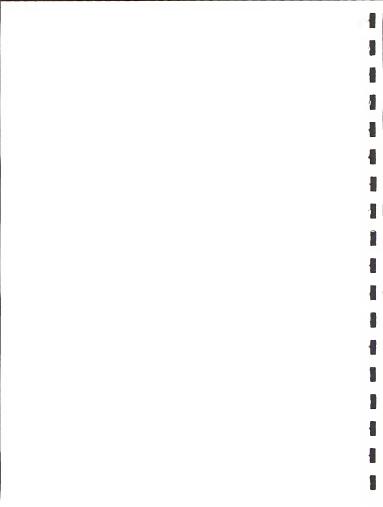
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Г	BLACK PLATE		MA	RKERS AND M	ONUMENT	s	SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMB ELEME		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
23	BLM ROAD SYSTEM MARKER	1749	.005"				PLACE NEXT TO HIGHWAY ORIENTED IN NORTH AND SOUTH POSITION	
2.4	TRIANGULATION STATION	△ DOG	.010″	TRI ANGLE	Δ .	B19	PLACE DOT IN CENTER	
25	BENCH MARK	BM × 134	.010"	CROSSBAR	$\Diamond \Diamond$	B14	ROTATE TEMPLET TO REQUIRED POSITION	
	PRECISE ALTIMETER ELEVATION	+ 134	.010"	CROSS	00	B15	INCLUDE IF APPLICABLE	
27	SPOT ELEVATION (UNCHECKED)	× 134	.010"	CROSSBAR	$\Diamond \Diamond$	B15	DITTO	
28	REFERENCE POINT INDEPENDENT SURVEY HORIZONTAL OR VERTICAL	⊡ 100	.010"	SQUARE DOT		B15	PLACE DOT IN CENTER	
29	U.S. MINERAL OR LOCATION MONUMENT	<b>A</b>				B19		
30	BOUNDARY MONUMENT	-0-	.010"	SQUARE		B15	PLACE DOT IN CENTER	

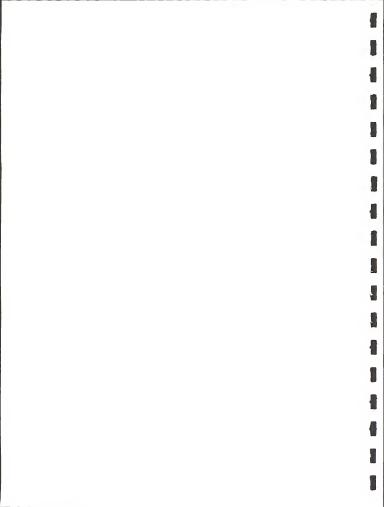
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

BLACK PLATE		MA	RKERS AND MONUMEN	SCALE 2 INCH	
FEATURE	ATURE SYMBOL		LINE SYMBOL WEIGHT ELEMENTS		INSTRUCTIONS
SECTION IDENTIFICATION	6				PLACE IN CENTER OF SECTION- NUMBER ALL SECTIONS
	• 1 - 3			B2	SHOW ONLY THAT PHOTOGRAPHY USED IN ORIGINAL MAPPING OR EXTENSIVE AUXILIARY MAPPING.
TOWNS AND CITIES	11				SHOW MAIN STREET SYSTEM AND MAJOR GOV'T BUILDINGS. ALSO CITY LIMIT BDY. (MISC. BOUNDARY).
BLM OFFICE		.010"	BLDG.  BASE  POLE  FLAG	B14 B22 B14 B15	
	SECTION IDENTIFICATION  AERIAL PHOTO CENTER (POSITION & I.D.)	FEATURE SYMBOL  SECTION IDENTIFICATION  AERIAL PHOTO CENTER (POSITION & I.D.)  TOWNS AND CITIES	FEATURE SYMBOL LINE WEIGHT  SECTION 6  ARRIAL PHOTO CENTER (POSITION & I.D.)  TOWNS AND CITIES	FEATURE SYMBOL LINE SYMBOL ELEMENTS  SECTION 6  AERIAL PHOTO CENTER (POSITION & I.D.)  TOWNS AND CITIES  BLM OFFICE  SYMBOL LINE SYMBOL ELEMENTS  BLDG. DRASE POLE POLE	FEATURE SYMBOL LINE WEIGHT SYMBOL ELEMENTS DIMENSION TEMPLET NO.  SECTION 6  ARRIAL PHOTO CENTER (POSITION & I.D.)  TOWNS AND CITIES  BLDG. BASE BLDG. B14 B22 B24 B22 B24 B24 B24 B25 B24 B25 B24 B25 B26

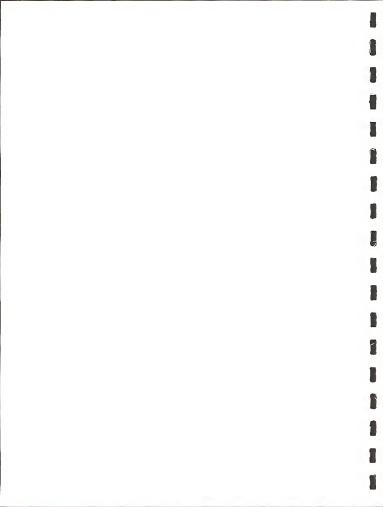
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	RKS AND STRUCTURES		SCALE 2 INCH	
ITEM	FEATURE SYMBOL LINE SYMBOL DI WEIGHT ELEMENTS TE		DIMENSION OR TEMPLET NO.	INSTRUCTIONS			
	ALL WEATHER ROAD		. 006 "	O/A WIDTH	.035"	O/A DESIGNATES OVERALL WIDTH	
35	DIVIDED HWY.	===	*	O/A WIDTH	.063"	*.006" WIDTH ON EXTERIOR LINE .005" WIDTH ON INTERIOR LINE	
36	SEASONAL USE ROAD		.006"	O/A WIDTH DASH = SPACE	.035" .10" .025"		
37	PRIMITIVE ROAD	*=*=*=*	. 006 "	O/A WIDTH DASH == SPACE INSERT ==	.035" .10" .025" .035"	PLACE INSERTS WITHIN ALTERNATE DASHES	
38	RAILROAD SINGLE TRACK		.008"	TIES: LENGTH D	A21 .30"	USE LONG SIDE OF A21	
39	RAILROAD DOUBLE TRACK	+	.006"	O/A WIDTH TIES: LENGTH () SPACE	.035" A19 .30"	USE LONG SIDE OF A19	
40	RAILROAD ABANDONED		.008"	DASH — CROSSTIES B SPACE	. 20 " A21 . 05 "	USE LONG SIDE OF A21	
41	TRAIL		.008"	DASH — SPACE	.10"		
42	LIVESTOCK ROUTE (ESTABLISHED)		.008"	DASH — INSERT — SPACE	A10 . 10" . 10"	PLACE IN CENTER OF SPACE	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		W	ORKS AND STRU	SCALE 2 INCH			
ITEM	FEATURE	SYMBOL	LINE WEIGHT	INE SYMBOL DI		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
43	ROAD BRIDGE	+	.006"	TICKS	00 00	A14	SHOW BRIDGES ACTUAL SIZE EXCEPT THOSE LESS THAN .10" IN LENGTH	
44	RAILROAD BRIDGE		.008"	TICKS	00 00	A14	DITTO	
45	FOOT BRIDGE		.008"	TICKS	••	A14	DITTO	
46	FERRY					A33		
47	ROAD FORD		.006"	DASH SPACE	=	. 10"		
48	TRAIL FORD		.008"	DASH SPACE	-	.10"		
49	ROAD TUNNEL	=>=←	. 006 "	O/A WIDTH TICKS DASH SPACE	*** *** ***	.035" A14 .10"	SHOW TUNNELS ACTUAL SIZE EXCEPT THOSE LESS THAN .10" IN LENGTH	
50	RAILROAD TUNNEL	+-+)=(++	. 008 "	O/A WIDTH TICKS DASH SPACE	00 00 =	.035" A14 .10" .025"	DITTO	

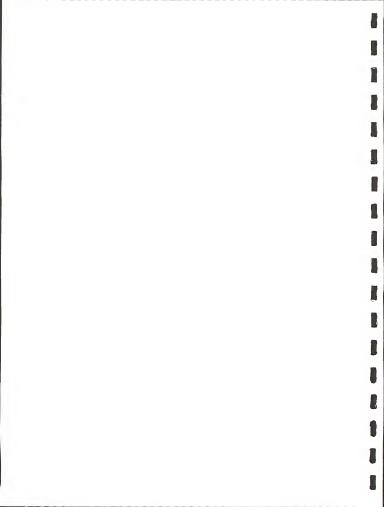
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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND STRU	CTURES		SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS TI		DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
51	FENCE (PROPOSED)	-xxx-					A DISTRICT SUPPLEMENTNOT PART OF PRINTED MAP	
52	FENCE	- <del>*</del> - <del>*</del> - <del>*</del>	.008"	TICKS SPACE	8	A14 . 40 "	SHOW ONLY THOSE OBTAINED FROM FIELD (DISTRICT) EDIT	
	ROAD FENCED ONE SIDE	<u>-vv</u>	. 008 "	TI CKS SP ACE	٥	A14	DITTO	
	ROAD FENCED BOTH SIDES	<del>* * *</del>	. 008 "	TICKS SPACE	8	A14	DITTO	
55	RAILROAD FENCED ONE SIDE	<del>  ×   ×   ×  </del>	.008"	TICKS SPACE	۰	A14 BETWEEN TIES	DITTO	
56	RAILROAD FENCED BOTH SIDES	× × × +	. 008 "	TICKS SPACE	8	A14 BETWEEN TIES	DITTO	
57	CATTLEGUARD	-x	.008″	O/A WIDTH LENGTH TICKS	00	A10 A10 A14		
58	RECREATION SITE		.008"	LARGE SMALL BASE	<u>^</u>	B19 A24 A10		

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

- }	BLACK PLATE		wo	RKS AND STRU	CTURES		SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT		SYMBOL DELEMENTS TE		INSTRUCTIONS	
59	TANKS (LABEL AS TO TYPE)	· Ø	.008"	SMALL LARGE CROSSHATCH	o o o	A1, 2, OR 3 A13 OR 30 3 OR 4/45°		
	FIRE L. O. (PRIMARY)	<b>(A)</b>		CIRCLE TRIANGLE	Q	B4 B19		
60	TRIANGULATION STA.	(NAME)	.008"	DOT	•	A4		
	FIRE L. O.(SECONDARY)	0		LARGE TRIANGLE	8	B4 B19	DOTATE TEMPLET TO MAKE OPENS IN	
61	TRIANGULATION STA.	(NAME)	. 008 "	SMALL CROSS	0		ROTATE TEMPLET TO MAKE CROSS IN CENTER-SCRIBE LARGE CIRCLE FIRST.	
				вох		A32		
62	FIRE TOOL CACHE	<b>É</b>	.008"	ТОР	$\Diamond$	A32	ROTATE TEMPLET TO REQUIRED POSITION	
63	BUILDINGS	. 11 1 ls					DEPICT ONLY THOSE BUILDINGS WHICH ADD VALUE OR UTILITY TO THE MAP, E.G, INDICATE SMALL SETTLEMENTS, POST OFFICES. SHELTER IN REMOTE AREAS. &	
64	BUILDINGS (ABANDONED)	••0 0 b	.008"			DITTO	SIMILAR CATAGORIES.	
65	SCHOOL	Į.	.008"	BLDG. POLE FLAG	1	A16 A19 A8	ROTATE TEMPLET TO REQUIRED POSITION	
66	CHURCH	i	.008"	BLDG. POLE CROSS	0	A16 A21 A14	ROTATE TEMPLET TO REQUIRED POSITION	

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## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE			WC	ORKS AND STR	SCALE 2 INCH				
ITEM	FEATURE	SYMBOL		SYMBOL		LINE WEIGHT	SYMB ELEME		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
67	SAWMILL		_	. 008 "	BLDG. BASE	^	A30 A10	½ CIRCLE		
68	SHELTER		П		TOP SIDES BASE		B20 A19 & A21 B20			
69	BLM RADIO INSTALLATION		2	.008"	BLDG. ANTENNA	1	A16 A14	1.		
70	AIRFIELD		Υ .		GUIDES	Δ 0	B20 ST. HWY. SYM.	1. \( \text{(PENCIL)} \) 3. \( \text{\text{DO NOT}} \) DO NOT 2. \( \text{\text{\text{A}}} \) \( \text{CHVWAY} \)		
71	AIRWAY BEACON		*		GUIDES	0	B4 A3	1. ⊙ (PENCIL) 3. ∰ 2. ⊗ 4. ★		
	OIL OR GAS WELLS	0	ACTIVE INACTIVE	.008"	CIRCLE	ο Δ	A13 A28	DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.		
73	CEMETERY	96	SMALL	.008"	BOUNDARY CROSS	:: ::-	A34 A32 & A16	ROTATE TEMPLET TO REQUIRED POSITION		
		DEM	LARGE	.008	BOUNDARY		ACTUAL SIZE	USE SHORT DASH FOR OUTLINE		
74	MINE OR QUARRY		*	.008"	HANDLES HEADS	◇  • • • • • • • • • • • • • • • • • • •	B14			

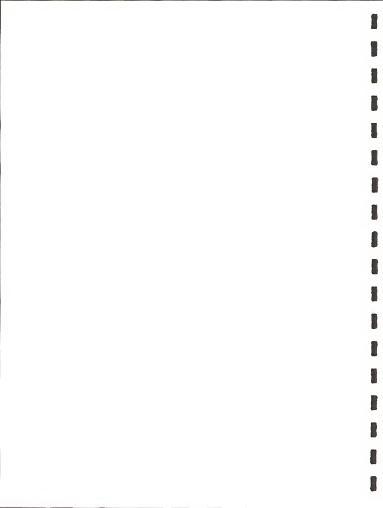
BLM MANUAL MAY 6, 1966 PAGE 59



# DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	ORKS AND ST	SCALE 2 INCH		
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMB ELEME		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
		C-	.008"	CIRCLE	С	A30	ROTATE TEMPLET TO REQUIRED POSITION
75	CORRAL	C		GATE		A32	ROTATE TEMPLET TO REGULARD POSTTTON
76	RUINS (LABEL)	g SMALL	.008"	BOUNDARY		A14	USE SOLID OUTLINE
/6	RUINS (LABEL)	[] LARGE	1	BOUNDARY		ACTUAL SIZE	USE SHORT DASH FOR OUTLINE
				тор		A26	
77	77 CLIFF DWELLING		. 008 "	BASE		A10	
78	GAGING STATION	•	. 008 "	CIRCLE	0	A30	1. ○ 2. ⊕ 3. •
79	TELEPHONE OR TELEGRAPH LINE		. 008 "	POLE SPACING	•	A2 . 50 "	SHOW ONLY WHEN NEEDED FOR ORIENTATION
80	POWER TRANS, LINE	-•	.008 "	POLE DASH SPACE	•	A2 A19 .05"	POLES SPACED EVERY 4 DASHES
81	PIPE LINE		.010"	DASH ENDS SPACE		. 25 " A16 . 05 "	
82	ROAD GATE	===	.010"	BAR ENDS: WEI	I GHT NGTH	.15" .015" .05"	

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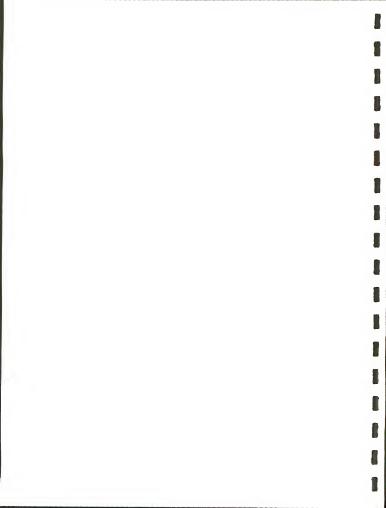


## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		wo	RKS AND STRUCTURES	SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
83	WINDMILL	Å	008"	CIRCLE O	B2 B22	
	RESERVOIR OR RETENTION DAM	$\checkmark$		BODY: LENGTH WIDTH WINGS	. 15 " . 05 " A27	MINIMUM SIZE GIVENSHOW ACTUAL SIZE IF LARGER
85	DETENTION DAM			BODY: LENGTH WIDTH	. 15" . 05"	рітто
86	CHECK DAM	1		BODY: LENGTH WIDTH	. 20 " . 05 " . 05 "	DITTO
87	DIVERSION DAM	F		BODY: LENGTH WIDTH	. 15 " . 05 "	DITTO
88	LARGE DAM	H		BODY: LENGTH WIDTH	. 20 " . 05 "	DITTO
89	EARTH TANK OR CHARCO	0	.010"	ENDS CO	B2 B15	
90	LOCATED OBJECT	•	.005"	CIRCLE O	B3 B1	NAME OBJECT

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RELEASE 9=28

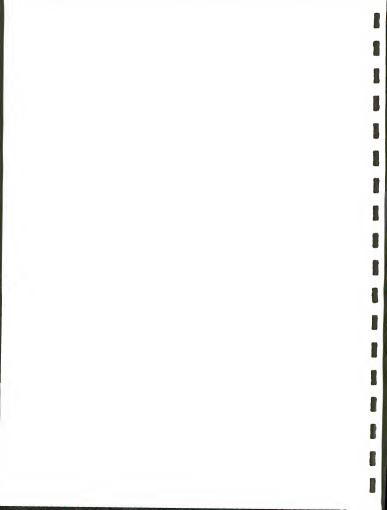


## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		DRAIN	AGE AND WATER FEATU	SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
	RIVER OR LARGE STREAM			SHORELINE WATERLINE	.012"	
92	PERENNIAL STREAM		.010" TO	SOLID LINE		.010" IS MINIMUM WIDTHVARY TO MAXI MUM OF .014" AS REQUIRED BY STREAM SIZES
	INTERMITTENT STREAM OR WASH	>	.010"	DASH ——— DOTS (SPACE)	. 40 "	
94	LAKE OR POND			SHORELINE WATERLINE	.012"	
95	INTERMITTENT LAKE OR POND		.012"	DASH — SPACE	.15" .05" ZIP # 453	
96	DRY LAKE OR POND	(2222)	.012"	DASH — SPACE INTERIOR	.15" .05" ZIP #19	1. OUTLINE AREA ON SCRIBE BASE 2. APPLY ZIP TO INTERIOR ON NAME PLATE
97	MARSH			STIK-UP	ZIP #602	PLACE STIK-UP ON NAME PLATE
98	SPRING	0>	.010"	CIRCLE O BAR □ ARROW ◇	A13 A34 A27	

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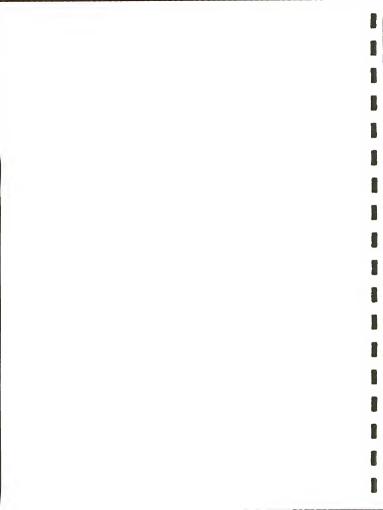
RELEASE 9=28



## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE	DRAIN	AGE AND WA	ER FEATU	RES '	SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBO ELEME		DIMENSION OR TEMPLET NO.	INSTRUCTIONS
99	SPRING IMPROVED	o <del>)</del> >	.010″	CIRCLE BODY WINGS BAR ARROW	000000000000000000000000000000000000000	A13 A26 A14 A26 A27	ROTATE TEMPLETS TO REQUIRED POSITIONS
100	ARTESIAN WELL	8	.010"	CIRCLE	0	A13 A33	
101	WELL	0	.010"	CIRCLE	0	A13	
102	AQUEDUCT TUNNEL	->=(	.010"	O/A WIDTH TICKS DASH SPACE	<u> </u>	.035" A14 .10"	
103	DITCH OR CANAL	7	.010"	DASH ARROW SPACE	D	.50" A28 .075"	DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.
104	FLUME OR AQUEDUCT		.010″	ARROW SPACING	<b>&gt;</b>	A28 . 50 "	DITTO
105	GUZZLER	◊	.010"	SIDES	<ul><li>∇</li><li>○</li></ul>	A28 A30	DITTO
106	LEVEE OR DIKE	(такананана)	.006"	LINE HACHURES	0	VARIABLE A15	DITTO USE SIDES OF SQUARE

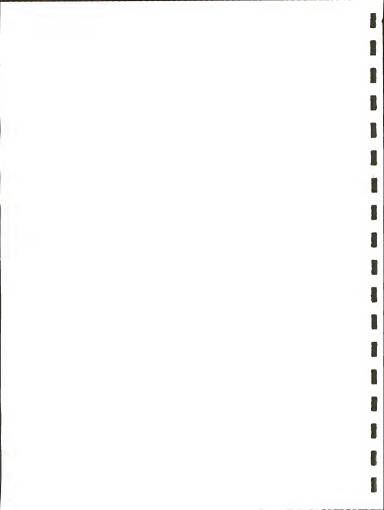
BLM MANUAL MAY 6, 1966



## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

Γ	BLACK PLATE			RELIEF FEATURES		SCALE 2 INCH	
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS	
	BLUFFS, CLIFFS, RIMS	L,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 006 "	VEE V		DEPICT ONLY THOSE WHICH ADD TO THE VALUE OR UTILITY OF THE MAP.	
108	PROMINENT RIDGE TOP	Carlo Aller		HACHURES	VARY .003" TO .005"	DITTO	
109	PROMINENT PEAK			HACHURES	VARY .003" TO .005"	DITTO	
110	SAND			STIK-UP	ZIP #304	DITTO APPLY ON NAME PLATE	
111	LAVA			STIK-UP	ZIP #669	DITTO	

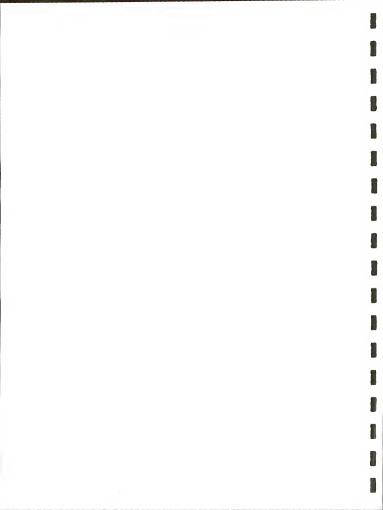
BLM MANUAL MAY 6, 1966



## DRAFTING & SCRIBING SPECIFICATIONS & INSTRUCTIONS

	BLACK PLATE		SCALE 2 INCH			
ITEM	FEATURE	SYMBOL	LINE WEIGHT	SYMBOL ELEMENTS	DIMENSION OR TEMPLET NO.	INSTRUCTIONS
112	TYPE LINE					1. LEROY PEN NO. 1 2. APPLY ON NAME PLATE

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### TWO (2) INCH SCALE ONE-COLOR SERIES MAP

FEATURES					LEROY GUIDES	INSTRUCTIONS	
AERIAL PHOTO NO. AIRPORT AIRWAY SEACON BENCH MARK BOUNDARY MONUMENT BRIDGE CABIN CATTLE GUARD CEMETERY (LARGE) CHURCH CLIFF DWELLING		DAM (TYPE OR NAME) DOCK FENCE NAME FIRE TOOL CACHE FISH HATCHERY FOREST NURSERY GAGING STATION GATE HATCHERY HOUSE LANDING FIELD LIGHTHOUSE LODGE		RUIN SCHOOL SHELTER SKI AREA TANK (TYPE) TRI. STA. NAME TUNNEL NAME U.S. MINERAL OR LOCATION MONUMENT WATER TANK WELL (TYPE) WINDMILL	80V-C-000		
ARROYO BAR BASIN BEACH BENCH BEND BLUFF BOTTOM BUTTE CANYON	CAPE CAVE CLIFF COULEE CRAG CRAGE CRATER CREST DIVIDE DRAW FLAT	GAP GORGE GULCH HEAD HILL HOLLOW ISLAND KNOB KNOLL LAVA BED	LEDGE MEADOW MDW. MESA MOUNTAIN RANGE MOUNTAIN MTN. PASS PEAK PK. PEN INSULA PLAIN PLAIN PLATEAU PGINT PT.	PRAIRIE RAVINE RIDGE RIM ROCK SADDLE SAND AREA SPUR SUMMIT VALLEY	SMALL 80V-CL-000 0R 100V-CL-000 MEDIUM 100V-CL-0 0 R 120V-CL-0 LARGE 140V-C-1.0R 175V-C-2 VERY LARGE 200V-C-2 TO	THE LARGE AND VERY LARGE LETTERING CLASSIFICATIONS SHOULD BE USED TO DESIGNATE ONLY THOSE DIVIDES, MOUNTAINS, RIDGES, VALLEYS, AND MOUNTAIN RANGES WHICH ENCOMPASS LARGE AREAS.  * * * CONTINENTAL DIVIDE USE 290V-C-2	

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RELEASE 9-28



## TWO (2) INCH SCALE ONE-COLOR SERIES MAP

FEATURES					LEROY GUIDES	INSTRUCTIONS	
BAY FALL BRANCH GEYSE BROOK GLACI COVE INLET CREEK CR. LAGOO	ER MARSH OR POND	RIFF RUN SWAMP SEEP SINK SLOU	WALLOW Wash Water Hole		SMALL 80S-CL-000 LARGE 100S-CL-00 OR 120S-CL-0		
LARGE CREEK AND	SMALL RIVER				120S-C-0		
GULF LARGE	LAKE LAR	GE RIVER	V		1405-C-1		
OCEAN STRAIT SOUND					200S-C-1 то 290S-C-2	VARY AS REQUIRED BY AREA SIZE.	
AQUEDUCT AQUEDUCT TUNNEL CANAL DITCH	FERRY FORD FLUME HIWAY NAME	LEVEE PIPELINE POWERLINE RAILROAD	ROAD NAME RESERVOIR TELEPHONE OR TELEGRAPH LINE	TRAIL NAME LIVESTOCK ROUTE	100S-C-00		
DISTRICT BOUNDARY					3241K-V-24PC No. 1-(FILL)	PLACE NAME EITHER ON BOUNDARY LINE OR WITH AREA-WHICHEVER IS THE	
RESOURCE AREA AND O&C MASTER UNIT BOUNDARY					3242C-V-18PC No. 00-(OPEN)	BEST SOLUTION FOR IDENTIFICATION AND CLARITY.	

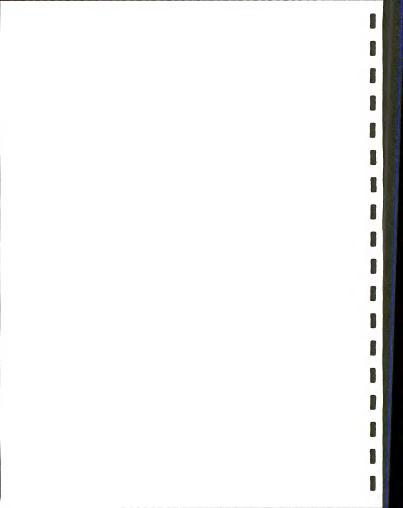
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TWO (2) INCH ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS	
PLANNING UNIT BOUNDARY	3242C-V-18PL No. 00-(OPEN)	PLACE NAME EITHER ON BOUNDARY LINE OR WITHIN AREA - WHICHEVER IS THE	
ALLOTMENT BOUNDARY	175V-CL-1	BEST SOLUTION FOR IDENTIFICATION AND	
NATIONAL OR STATE BOUNDARY	175V-C-1	CLARITY.	
COUNTY BOUNDARY	140V-C-0		
LAND GRANT BOUNDARY	120V-CL-0		
MISC. (INDIAN RESERVATIONS, NATIONAL MONUMENT, NATIONAL FOREST, RCA, OTHERS) BOUNDARY	120V-C-0		
PARK BOUNDARY (COUNTY, STATE, OR FEDERAL)	SMALL 100V-C-00 MEDIUM 120V-C-0 LARGE 140V-CL-1		
TOWN NAMES	SMALL 100V-CL-00 MEDIUM 120V-CL-0 LARGE 140V-C-1 OR 175V-C-1		

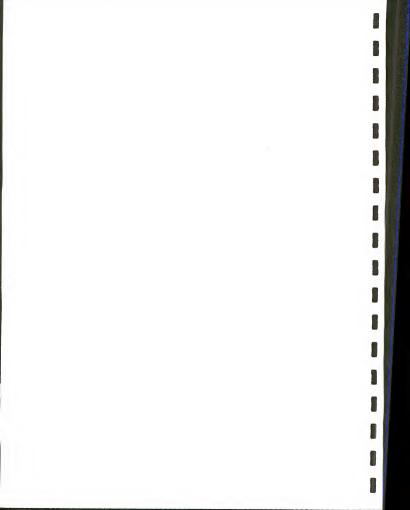
BLM MANUAL MAY 6, 1966 RELEASE 9=28



## TWO (2) INCH SCALE ONE-COLOR SERIES MAP

FEATURES	LEROY GUIDES	INSTRUCTIONS
TOWNSHIP AND RANGE NUMBERS	NOT APPLICABLE	
STANDARD MERIDIANS AND PARALLELS; AND BASE LINES (CADASTRAL SURVEY)	120V-C-0	
SECTION NUMBERS	100V-C-00	
STATE, FEDERAL AND BLM ROUTE NUMBERS	MONSEN NO. 204J6L	
FOREST OR RANGE TYPES	80V-CL-000	
PRECISE ALTIMETER ELEVATIONS AND SPOT ELEVATIONS	80V-C-000	F REQUIRED.
STATUS SYMBOL	80V-C-000	

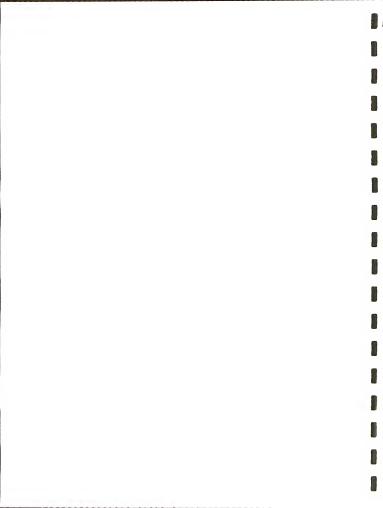
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111

MAP FORMAT DATA AND ILLUSTRATIONS

PART



### 9161-MAP SYMBOLS

# ILLUSTRATIONS

- No. I Sample of title block, key map, reference data, and legend for Basic Series Maps at I" = I mile scale.
- No. 2 Sample of title block, key map, reference data, and legend for Basic Series Maps at  $\frac{1}{2}$ " = 1 mile scale.
- No. 3.- Sample of typical placement of map identification and reference data on the ½" and I"=I mile scale Basic Series Maps. Placement of this data can be adjusted to fit the boundary shape of the individual Basic Series Map.
- No. 4 Sample of format and placement of map identification and reference data for Basic Series Maps at 2"= I mile scale.
- No. 5 Sample of format showing method of designating, identifying, and placing range forage inventory data on Type Maps (see Illustration No. 4).
- No. 6 Sample of format and placement of map identification and reference data for Bureau's 16" x 21" Color Quadrangle Map of ½"=1 mile scale. Standard legend to be printed on reverse side.
- No. 7 Sample of method to determine Index Code Numbers for each State's 16" x 21" Color Quadrangle Maps (Illustration No. 6).
- No. 8 Sample legend to be used on the one color ½ "=1 mile scale Basic Series Maps and the I"=1 mile scale Basic Series Maps.
- No. 9 Symbol Templets (Index Key)
- No.10 Descriptive basic diagrams of the two map scribing processes.



((lp,l.) SHEET SHEET SHEET (lp,l.) (lp,l.)

LEGEND See Illustration No. 8

BUREAU OF LAND MANAGEMENT

PLANNING UNIT\_

U.S. DEPARTMENT OF THE INTERIOR

THE STATE OF

SHEET\_\_\_\_ OF \_\_\_\_ (If required) (14pt.)

(STATE NAME) 1966 (12pt.) SCALE: 1" = 1 MfLE (10pt.)

BASE MAP COMPILED FROM ONE OR MORE OF THESE SOURCES: RECENT MAPS PUBLISHED BY THE U.S.G.S., U.S.F.S., STATE HIGHWAY DEPARTMENT, B.L.M. RECORDS, LOCAL MAPPING SOURCES AND AERIAL PHOTOGRAPHY. (1964)

(SAMPLE OF COMPILATION REFERENCE DATA)

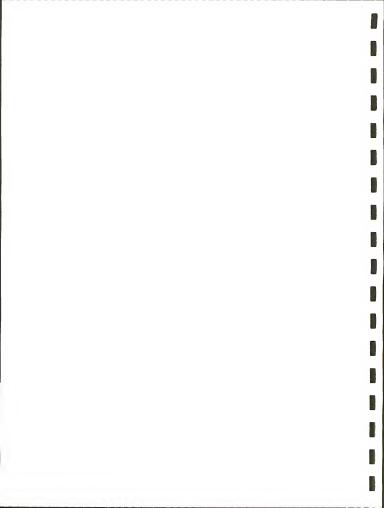
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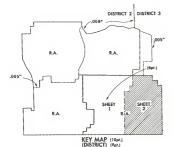
FUTURA MEDIUM STYLE LETTERING (JAGGARS-CHILES-STOVALL)

Illustration No. 1

9161-MAP SYMBOLS

3Mi. (8pt.)





LEGEND See Illustration No. 8

BASE MAP COMPILED FROM ONE OR MORE OF THESE SOURCES: RECENT MAPS PUBLISHED BY THE U.S.G.S., U.S.F.S., STATE HIGHWAY DEPARTMENT, B.L.M. RECORDS, LOCAL MAPPING SOURCES AND AERIAL PHOTOGRAPHY. (10pt.)

(SAMPLE OF COMPILATION REFERENCE DATA)

SCALE: 1/2" = 1 MILE (10pt.) REVISIONS (9pt.) PLANIMETRY

(STATE NAME) (12pt.)

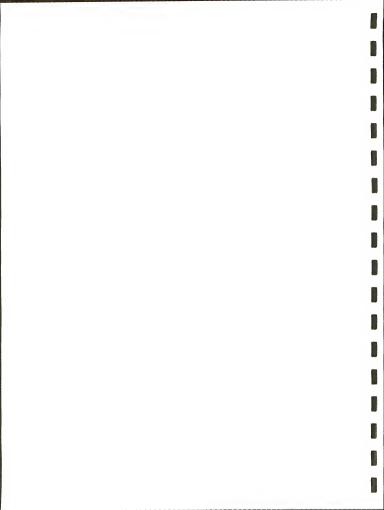
U.S. DEPARTMENT OF THE INTERIOR BURFALL OF LAND MANAGEMENT

> RESOURCE AREA (24pt.) DISTRICT (1801)

SHEET\_OF \_\_\_ (If required) (14pt.)

STATUS

FUTURA MEDIUM STYLE LETTERING (JAGGARS-CHILES-STOVALL)



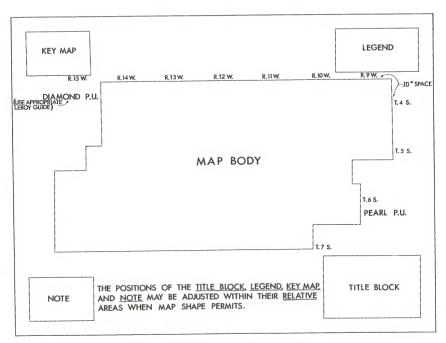
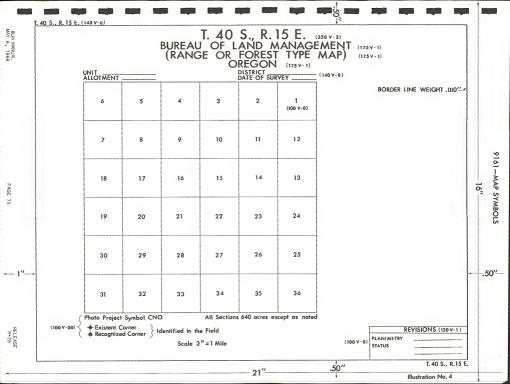


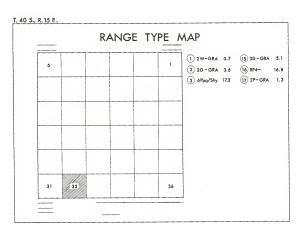
Illustration No. 3

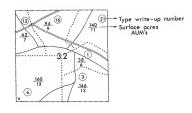
9161-MAP SYMBOLS

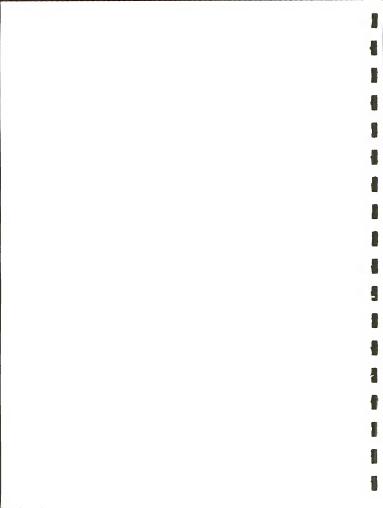


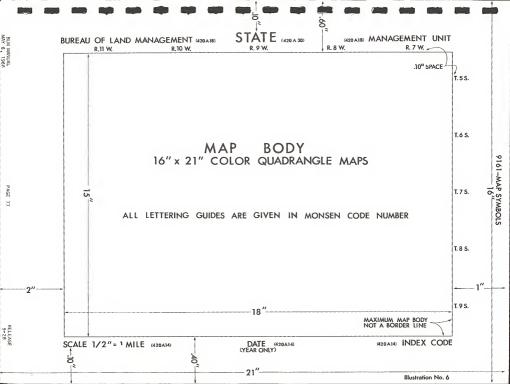


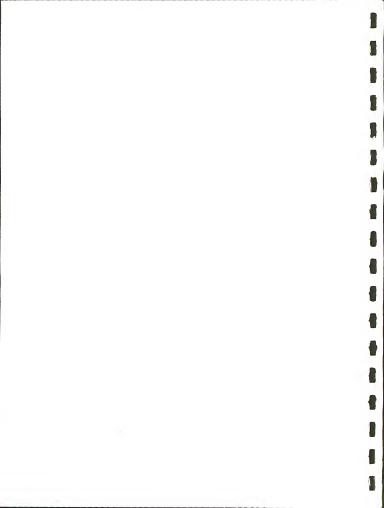






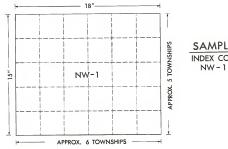






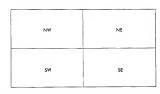
nw-1	NW-2	NW-3	NW-4	
NW-5		NW-7	NM-8	NE
NW-9		NW-11	NW-12	INE
NW-13	NW-14	NW-15	NW-16	
SW-1	5W-2	SW-3	SW-4	
sw				SE
				ATE

# STATE

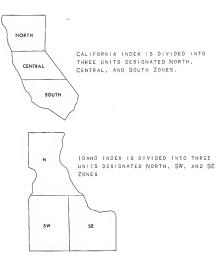


SAMPLE INDEX CODE





OREGON, MONTANA, NEVADA, WYOMING, COLORADO, NEW MEXICO, AND ARIZONA STATE INDEXES ARE DIVIDED INTO FOUR UNITS DESCRIBED AS THE NW, NE, SW, AND SE ZONES. WITH THE EXCEPTION OF NEVADA AND UTAH, THE UNITS WILL BE ALMOST EQUAL IN AREA.





DUE TO THE VARIATIONS IN THE SIZE AND SHAPE OF MANY TOWNSHIPS AND BECAUSE TOTAL MAP CONTENT ON EACH QUADRANGLE CANNOT EXCEED THE OVERALL DIMENSIONS OF 15" X 18", IT WILL BE NECESSARY TO BREAK THE QUADRANGLE MAP AREAS ON SECTION LINES IN THOSE CASES WHERE DUE TO TOWNSHIP SIZE OR SHAPE PROBLEMS IT IS IMPOSSIBLE TO INCLUDE A FULL 5 BY 6 TOWNSHIP UNIT AND ADHERE TO THE 15" X 18" MAP SPACE LIMITATIONS. IN ALL CASES YOU SHOULD ALWAYS INCLUDE WITHIN THE ALLOWABLE 15" X 18" MAP AREA THE MAXIMUM MAP CONTENT POSSIBLE.

THE ILLUSTRATION BELOW DEPICTS IN DETAIL THE CORRECT WAY TO PREPARE A TYPICAL INDEX MAP:

ALL QUADS LYING ON STATE BOUNDARY LINES SHOULD INDICATE BY SHORT TICKS THE SECTIONS, TOWNSHIPS, AND/OR RANGE LINE TIES TO THE ADJOINING STATE QUADS.

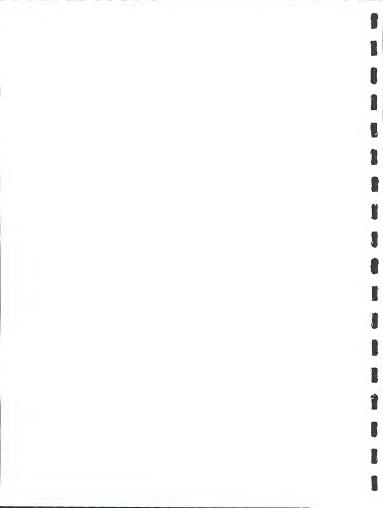
USE THE N. & W.
BOUNDARIES OF THE STATE AS POINTS OF ORIGIN FOR THE NW
1 QUAD.

| NW1 | NW2 | NW3 | NE1 | NE2 | NE3 | NE1 | SW1 | SW2 | SW3 | SE1 | SE2 | SE3 | SW10 | SW11 | SW12 | SE10 | SE11 | SE32

POSITION THE N-S AND E-W SUBDIVISION LINES TO PERMIT FULL QUADS
(NE 1, SW 1, AND SE 1) TO ORIGINATE AT THESE POINTS IN EACH ZONE.
WITH CERTAIN EXCEPTIONS (E.G.,
ALONG THE CURVED CALIFORNIA COAST)
ALL QUADS WILL BE FULL QUADS EXCEPT THOSE LYING ALONG THE EAST
AND SOUTH BOUNDARIES.

WHEN AS ILLUSTRATED QUADS FALLING ON THE E. & S. S. SOUNDARIES OF THE STATE WILL OVERLAP THE ADJOINING STATE OR STATES, TATAT PORTION OVERLAPPED WILL BE MAPPED TO COMPLETE EACH QUAD'S 15" X 18" MAP CONTENT AREA.

THE PORTION OF THE QUAD LYING IN THE ADJOINING STATE CAN BE MAPPED ON A SKELETON BASIS, I.E., DEPICT ONLY THE LAND SURVEY NET, LAND STATUS, AND MAJOR ROADS AND DRAINAGES.



# LEGEND (10pt.)

(Use applicable symbol) PLANNING UNIT, RESOURCE AREA, or DISTRICT BOUNDARY (8pt.)

ALL WEATHER ROAD

===== SEASONAL ROAD

===== PRIMITIVE ROAD

---- TRAIL

B.L.M. OFFICE

LOOKOUT STATION

RECREATION SITE

(70) U.S. INTERSTATE HIGHWAY

(40) U.S. HIGHWAY

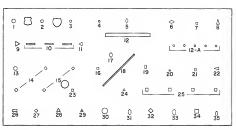
93) STATE HIGHWAY

1749 B.L.M. ROAD SYSTEM

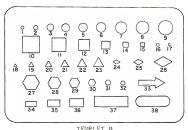


# 9161-MAP SYMBOLS

MAP TEMPLET KEYS



TEMPLET A (USGS)



TEMPLET B (DU-ALL #411)

NOTE--MANY SYMBOLS REQUIRE THAT THE TEMPLET BE PLACED IN A COMBINATION OF POSITIONS TO PRODUCE THE DESIRED SCRIBED SYMBOL IMAGE.



## 9161-MAP SYMBOLS

### MAP SCRIBING PROCESSES

A. ONE-COLOR SCRIBING PROCESS--USED IN PREPARING ONE-HALF-INCH SCALE
BASIC SERIES MAPS; THE ONE-INCH SCALE BASIC SERIES MAPS; AND THE
TWO-INCH SCALE BASIC SERIES MAPS.



STEP 1. SCRIBE (RIGHT READING) ALL MAP DETAIL EXCEPT

NAMES, LEGEND, AND MARGINAL INFORMATION ON

ONE SCRIBE PLATE. USE .0075 "THICK SCRIBE COAT.



STEP 2. PREPARE THE NAME PLATE ON .005" MYLAR, PUNCHREGISTERED TO THE SCRIBED BASE PLATE. LEROY

ALL NAMES, LEGEND, AND MARGINAL INFORMATION
IN THE APPROPRIATE POSITIONS. PLACE THE

STIK-UP HWY. ROUTE MARKER NUMBERS OVER THE

PROPER ROUTE SYMBOLS. ALSO PLACE OTHER STIK-UP

SYMBOLS ON NAME PLATE.



STEP 3. REPRODUCE ONE COMPOSITE MYLAR AUTO-POSITIVE, FROM
THE SCRIBED BASE PLATE AND NAME PLATE (USE
EMULSION TO EMULSION PROCESS). THE AUTO-POSITIVE
IS USED TO MAKE ALL DUPLICATE PAPER OR FILM
COPIES OF THE MAP AS REQUIRED. THE SCRIBED BASE
PLATE AND NAME PLATE ARE MASTER ORIGINALS WHICH
SHOULD BE TREATED WITH CARE AND KEPT FILED.



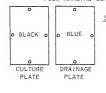
B. MULTI-COLOR SCRIBING PROCESS--USED IN PREPARING THE 16 INCH X 21 INCH BASIC SERIES COLOR QUADRANGLE MAP.

NOTE--IMAGED SCRIBE PLATES, (RIGHT READING), ARE PREPARED FROM ORIGINAL

COMPILATION NEGATIVE. IMAGE REGISTER IS MAINTAINED BETWEEN SCRIBE

PLATES BY USE OF REGISTER STUDS POSITIONED IN THE CENTER OF ALL

FOUR MARGINS OUTSIDE THE TRIM LINE.

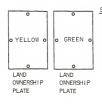


STEP 1. SCRIBE ALL CULTURE (INCLUDES PUBLIC LAND

SURVEY LINES) ON ONE SCRIBE PLATE (BLACK).

SCRIBE ALL DRAINAGE AND WATER FEATURES ON A

SEPARATE SCRIBE PLATE (BLUE).



NUMBER OF PHOTO-DUPLICATE PEEL-COAT SCRIBE

PLATES REQUIRED FOR THE VARIETY OF LAND

OWNERSHIP TO BE SHOWN. PRINTING OF LAND

OWNERSHIP WILL CONFORM TO THE BUREAU'S

STANDARD COLOR-GUIDE CONTAINED IN SECTION H.



B. (CONTINUED)



STEP 3. NAME PLATES CAN BE COMPILED USING EITHER A PLAIN

MYLAR OVERLAY OR A DROP-OUT-BLUE MYLAR POSITIVE

PREPARED FROM THE CULTURE AND DRAINAGE COMPOSITE

(NAME PLATES, ALSO, MUST BE PUNCHED FOR STUD

REGISTER). STIK-UP LETTERING NAMES (PREVIOUSLY

SELECTED AND ORDERED) ARE PLACED AND FIXED IN THEIR

APPROPRIATE POSITIONS ON THE NAME PLATE.



FINISHED 16"X21" COLOR QUADRANGLE MAP STEP 4. A MULTI-COLOR OFFSET PRINTING IS MADE FROM THE

COMPOSITE IMAGES OF ALL PLATES. THIS PRINTING

PROCESS PRODUCES THE DESIRED 16 INCH X 21 INCH

BASIC SERIES COLOR QUADRANGLE MAP.



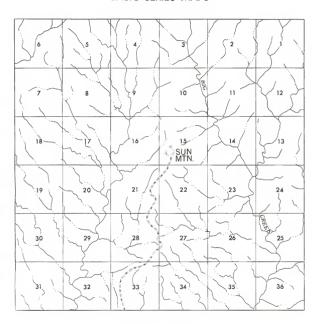
# B. L. M. STANDARD DRAINAGE DENSITY PATTERN FOR BASIC SERIES MAPS



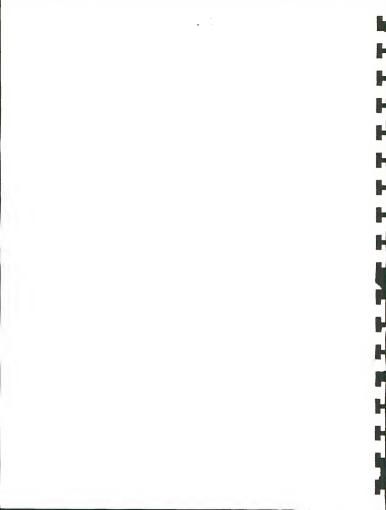
SCALE 1/4" = 1 MILE



# B. L.M. STANDARD DRAINAGE DENSITY PATTERN FOR BASIC SERIES MAPS

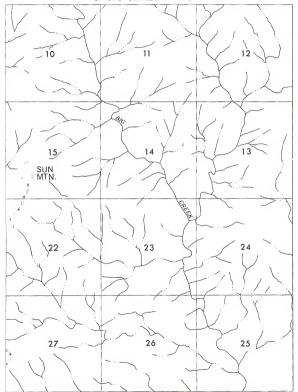


SCALE 1" = 1 MILE



#### 9161—MAP SYMBOLS B.L.M. STANDARD DRAINAGE DENSITY PATTERN FOR

BASIC SERIES MAPS



SCALE 2"=1 MILE



PART IV

SYMBOLS FOR FIELD DATA
IDENTIFICATION AND DELINEATION



RECORDATION OF DATA OBTAINED FROM FIELD STUDIES — e.g. RANGE & FOREST INVENTORIES, LAND CLASSIFICATION, etc.

#### A. RED INK

1. MAP SYMBOL	NAME	FIELD SYMBOL
	ALL WEATHER ROAD	
=====	SEASONAL ROAD	
*=*=*=	PRIMITIVE ROAD	P P
	TRAIL	II
	RAILROAD	+
+++++	RAILROAD (Abandoned	) +++++

#### B. BLUE INK

- All Drainage and Water Features as given in Bureau Symbol Manual will be delineated in Blue Ink for all field data recordation (Range, Forest or Land Resource Survey).
- 2. Map and Field Symbols are identical in form.

#### C. GREEN INK or ORANGE INK

1. MAP SYMBOL NAME FIELD SYMBOL

RANGE OF FOREST
TYPE LINE

#### D. BLACK INK

- All Boundaries, Markers & Monuments, Works & Structures (except Roads, Railroads & Trails), and Relief Features will be delineated and identified in Black Ink.
- 2. Map and Field Symbols are identical in form.
- 3. All Symbol Descriptions to be labeled in Black Ink.

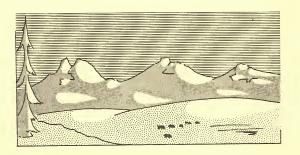
#### GENERAL:

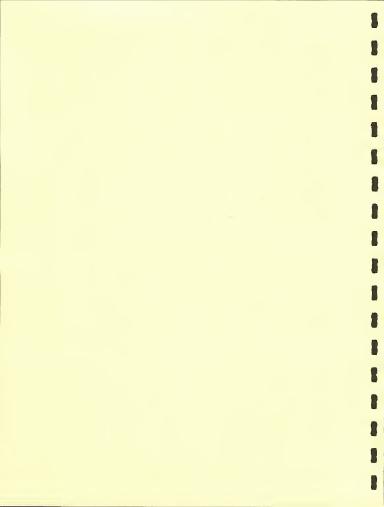
Field Personnel should use "Rapidograph" type pens and inks similar to "Pelikan" brand for best results.



## SECTION B

## RANGE





#### SECTION B INDEX

Part II . . . . . . Map Symbols
Part II . . . . . . Plant Symbols
Part III . . Range Vegetation Types



PART I
Map Symbols



	NAM	<u>E</u>	SYMBOL	
Α.	Bou	ndary		
	1.	Allotment	• • • • • • • •	
	2.	Fenced allotment	• × • × • × •	
	3.	Pasture boundary (within allotment)	00000000	
	4.	Corral	C-	
в.	Fen	ces		
	l.	Fence	<del>-x x x-</del>	
	2.	Cattle Guard	<del>-× )=( × -</del>	
	3.	Road fenced one side	<u> </u>	
	4.	Road fenced both sides	<del>- × × ×</del>	
	5.	Railroad fenced one side	<del>,                                    </del>	
	6.	Railroad fenced both sides	+ <del>x + x + x + x +</del>	
C.	. Roads			
	1.	Trails		
	2.	Livestock Route (Established) Stock Driveway	111	
	3.	Other standard road symbols are found under Section A.		

INSTRUCTIONS

Detailed drafting instructions, where applicable, are found in Section A. MAME

SYMBOL

INSTRUCTIONS

#### D. Water Facilities

ı.	Pipeline	
	- 120-111110	

**——** 

2. Well

0

3. Artesian well

4. Windmill

5. Water trough 6. Water storage

7. Water catchment

8. Guzzler

9. Water hole or seep.

10. Spring

11. Spring (improved)

아

12. Earth tank or charco

13. Reservoir or retention dam

14. Detention dam

15. Check dam

16. Diversion dam

17. Large dam

18. Rivers or large stream

19. Perennial stream

20. Intermittent stream or wash

Detailed drafting instructions are found in Section A where applicable.

#### NAME

#### SYMBOL

#### INSTRUCTIONS

21. Lake or pond

Intermittent lake 22. or pond

23. Dry lake or pond

24. Marsh

25. Ditch or canal







#### E. Studies.

1. Key area

K

2. Crucial area

C\_C\_C\_

3. Range and Wildlife Studies

a. Exclosure

Æ. de.

b. Production c. Utilization

LU

6

d. Trend

Œ

e. Condition

æ

f. Climate

Lw

Detailed drafting instructions are found in Section A where applicable.

Areas which show the "pulse" of the range.

A portion of the range which requires special management to protect, maintain or improve vegetation, soil conditions, esthetic values, wildlife habitat, etc.

All study locations will include the symbol with the appropriate latter symbol included. Example: KKET, Exclosure with a trend study on a kev area. Wildlife studies will be identified with subscript "ש" under study symbol. Example: (c , condition study

for wildlife.

NAME

SYMBOL

INSTRUCTIONS

#### F. Relief Features

- 1. Bluffs, cliffs, rims
  - 2. Prominent ridge top
  - 3. Prominent peak
  - 4. Sand
  - 5. Lava



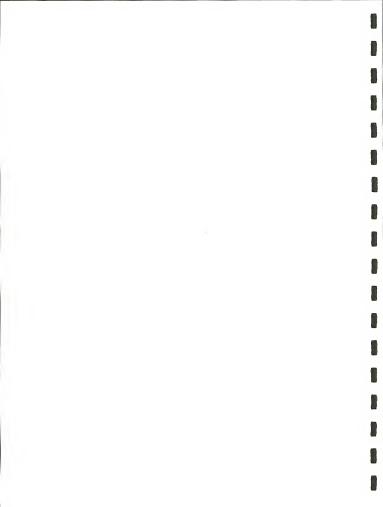




Detailed drafting instructions are found in Section A where applicable.

PART II
Plant Symbols

RELEASE 9+28



#### PLANT SYMBOLS

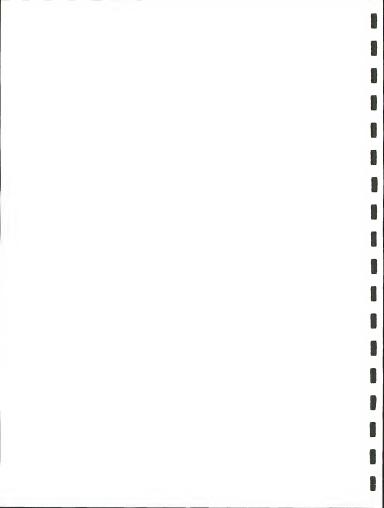
- A. <u>Plant Symbols</u>. Plant symbols are a means by which uniformity and standardization of plant names can be used for mapping and listing of different species of vegetation throughout ELM administered lands.
- B. Examples:

Symbol	Botanical Name	Common Name	<u>Definition</u>
Artr	Artemisia tridentata	Big sagebrush	Plant symbols are derived from the first two letters (Ar) of the generic name and the first two letters (tr) of the species name.
Brte	Bromus tectorum	Cheatgrass	
Agsp	Agropyron spicatum	Bluebunch wheatgrass	
Agin (1)	Agropyrom inerme	Beardless wheatgrass	Plants which have the same symbol shall have a number (1)
Agir (2)	Agropyron inter- medium	Intermediate wheatgrass	after the more important symbol and a number (2) after the less important symbol.



PART III

Range Vegetation Types



#### RANGE VEGETATION TYPES

#### A. <u>Introduction</u>:

Range vegetation types are selected by the aspect of the vegetation at first appearance.

Example: As a person looks at an area he notices the general appearance is grass - the type would then be listed as -1-.

#### B. Basic Vegetative Types:

Symbol	Type	Color	Description
1	Grass	Light yellow	Includes grassland other than meadows.
2	Meadow	Cadmium orange	Includes areas where sedges, rushes, and moisture-enduring grasses predominate. Two classes of meadows are recognized: wet meadows and dry meadows.
3	Perennial forbs	Lake red	Includes all untimbered areas where perennial forbs pre- dominate over other classes of vegetation.
4	Sagebrush	Stone brown	Includes all untimbered lands where sagebrush or shrubby species of similar character predominate.
5	Mountain shrub	Olive green	Includes all untimbered lands where mountain shrube, excepting sagebrush or its subtypes, gives the main aspect to the type or is predominant vegetation.
6.	Conifer	Dark green	This type includes all range in coniferous timber supporting grasses, forbs, or shrubs, either singly or in combination.

Symbol	Type	Color	Description
7	Waste	Blue green	The subtype designations generally encountered in this type are as follows: 7T-waste in dense timber; 7D-waste in down timber; 7B-waste in brush; 7R-waste areas where rocky character prevents use; 7I-permanently inaccessible areas.
8	Barren	Uncolored	Includes all areas on which there is no natural vegetation, or practically none, including intermittent lake beds, saline flats, active sand dunes, shale, rock slides, lava flows, etc.
9	Pinon-juniper	Light green	Includes pinon, juniper, pinon-juniper and digger pine.
10	Broad leaf trees	Pink	Includes all range in deciduous timber.
11	Creosote bush	Bottle green	Includes areas where creosote bush ( <u>Larrea</u> ) constitutes the predominant vegetation.
12	Mesquite	Yellow earth	Includes areas where various species of mesquite (Prosopis) give the characteristic aspect or constitute the predominant vegetation.
13	Saltbush	Slate	Includes areas where the various salt desert shrubs of the Atriplex genus form the predominant vegetation, or give the characteristic aspect.
14	Greasewood	Royal purple	Includes areas where greasewood ( <u>Sarcobatus</u> ) is the predominant vegetation or gives a characteristic aspect.
15	Winterfat	Light tan	Includes areas where winterfat ( <u>Eurotia</u> ) gives a characteristic aspect or constitutes the predominant vegetation.

Symbol	Type	Color	Description
16	Desert shrub	Dark tan	Includes areas where other desert shrubs aside from those separated into individual types, constitute the predominant vegetation or give the characteristic aspect.
17	Half shrub	Wisteria	Includes areas where half shrubs (semi-woody peremnials of low stature) constitute the dominant vegetation or give the characteristic aspect.
18	Annuals	Red terra cotta	Includes areas in which annual forbs or annual grasses constitute the dominant vegetation.

#### C. Type number and symbols:

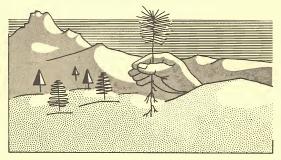
Each range type will include  $\underline{both}$  the type number and plant symbols.

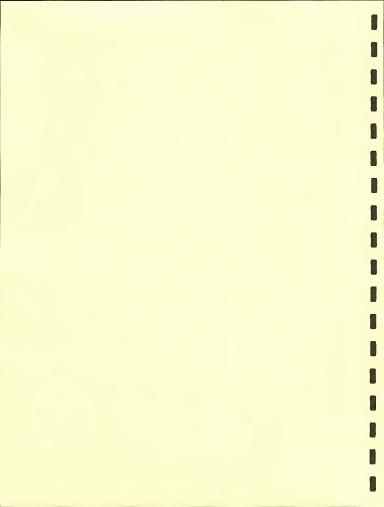
Example: The type of grass is (1), the major species is <u>Agropyron spicatum</u> (Biue Bunch Wheatgrass) Agsp, and the minor or less important species is <u>Bromus Tectorum</u> (Cheatgrass) Brte - the range type would become 1-Agsp-Brte.



## SECTION

## FORESTRY





FORESTRY

SECTION C

FOREST CLASSIFICATION

PART I PACIFIC NORTHWEST

PART II OTHER WESTERN STATES



PART I

PACIFIC NORTHWEST

FOREST CLASSIFICATION



## A. COMMERCIAL FOREST LAND CLASSES AND SYMBOLS

#### I. Stand Size Class Symbols

Symbol	Stand Size Class	Description
1	Seeding & saplings	0 - 5 in. d.b.h.
2	Pole timber	5 - 11 in. d.b.h.
3	Small saw timber	ll - 21 in. d.b.h.
2+	Large saw timber	21 - in. and larger d.b.h.
5	Large old growth Douglas-fir saw timber	21 in. and larger d.b.h. mainly old growth, usually over 300 years old.

#### II. Condition Classes and Symbols

Symbol	Condition Class
Х	Recent clear-cut area, nonstocked (cut over during the last 5 years)
хо	Old clear-cut area, nonstocked
F	Area deforested by fire, nonstocked
I	Area deforested by insects, nonstocked
WT	Area deforested by wind, nonstocked

## III. Forest Type Symbol Prefixes

Symbol .	Description
R	Residual stand after partial cutting
X	Restocked clear-cut area
PL	Planted area
S	Indicates a seeded area resulting from manual or aerial seeding.

#### IV. Density Classes and Symbols

Symbol	Density	Description
-	Poorly stocked	10 - 40%
=	Medium stocked	40 - 70%
=	Well stocked	70 - 100%

## V. Timberland Types and Symbols

Type Symbol	Local Type Name
D	Douglas fir
P	Ponderosa pine
н	Western hemlock
s	Sitka spruce
C	Cedars
FM	True fir-mountain hemlock
WL	Western larch
WF	White fir
w.	White pines
LP	Lodgepole pine
HD	Hardwoods

## B. WOODLAND OR NONCOMMERCIAL FOREST TYPE AND NONFOREST LAND CLASSES AND SYMBOLS

### I. Woodland or Noncommercial Forest Types

Symbol	Description
J	Juniper
OM	Oak-madrone (scrub stands)
SA	Subalpine (nonmerchantable stands above commercial forest zones)
NR	Forestland within a commercial forest zone, too rocky, steep, or sterile to produce a merchantable stand, or which otherwise qualifies as commercial forest land, but due to physical inaccessibility and/or damageable site conditions is unavailable economically in the foreseeable future.

#### II. Nonforest Land Types

Symbol	Description
A	Agricultural (cultivated or stump pasture
G	Grass or brush, including chaparral (not part of operating farm unit)
0	Non-vegetative (including barrens, tide flats, cities, and unmeandered water)

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## C. SPECIES SYMBOLS

Symbol	Common and Scientific Name
đ	Douglas-fir (Pseudotsuga menziesii)
es	Engelmann spruce (Picea engelmanni)
s	Sitka spruce (Picea sitchensis)
mla	Mountain hemlock (Tsuga mertensiana)
h	Western hemlock (Tsuga heterophylla)
ye	Alaska cedar (Chamaecyparis nootkatensis)
ic	Incense cedar (Libocedrus decurrens)
pc	Port Orford cedar (Chamaecyparis lawsoniana)
е	Western redcedar (Thuja plicata)
lp	Lodgepole pine (Pinus contorta latifolia) Shore pine (Pinus contorta) Knobcone pine (Pinus attenuata)
P	Ponderosa pine (Pinus ponderosa) Jeffrey pine (Pinus Jeffreyi)
sp	Sugar pine (Pinus lambertiana)
w	Western white pine (Pinus monticola) Whitebark pine (Pinus albicaulis)
af	Alpine fir (Abies lasiocarpa)
nf	Noble fir (Abies procera)
a	Pacific silver fir (Abies amabilis)
srf	California red fir (Abies magnifica)
wf	White fir (Abies concolor) Grand fir (Abies grandis)
wl	Western larch (Larix occidentalis) Alpine larch (Larix lyallii)
r	Redwood (Sequoia sempervirens)
j	Western juniper (Juniperus occidentalis)

## C. SPECIES SYMBOLS

Symbol	Common and Scientific Name
m	Bigleaf maple (Acer macrophyllum)
be	Black cottonwood (Populus trichocarpa hastata) Quaking aspen (Populus tremuloides)
my	California laurel (Umbellularia californica)
ch	Golden chinquapin (Castanopsis chyrosphylla)
co	California black oak (Quercus kelloggii)
clo	Canyon live oak (Quercus chrysolepis)
00	Oregon white oak (Quercus garryana)
oa.	Oregon ash (Fraxinus oregana)
mad	Pacific madrone (Arbutus menziesii)
ra	Red alder (Alnus rubra)
to	Tanoak (Lithocarpus densiflorus)
ъ	Western paper birch (Betula papyrifera var. occidentalis) Northwestern paper birch (Betula papyrifera var. subcordata)

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#### D. USE OF TYPE SYMBOLS WITH EXAMPLES

Symbols	Description
D5, h =	Douglas-fir, large sawtimber, mainly old growth fir, but with more than 20% of the cubic-foot volume in western hemlock, medium stocked.
FM4, mh = 140	True fir-mountain hemlock, large sawtimber, mainly mountain hemlock, with no other species making up 20% or more of the cubic-foot volume of the stand, well stocked, 140 years in age.
C <sup>1</sup> +, c,d =	Cedar, large sawtimber, comprised of a plurality of cubic-foot volume in red cedar and at least 20% bouglas-fir, medium stocked, over 160 years in age.
D¹+ ≡	Douglas-fir, large sawtimber, well stocked, no other species, making up 20% or more of cubic-foot volume of stand.
HD2, 00,oa = 90	Hardwood poletimber, plurality of cubic-foot volume in Oregon white oak, but with more than 20% of the volume Oregon ash, well stocked, 90 years in age.
Dl, ra, h = 10	Douglas-fir seedling and sapling stand predominantly Douglas-fir but with more than 20% each of red alder and western hemlock with western hemlock least abundant, well stocked 10 years old.
RP <sup>l</sup> 4 -	Residual (partially cut) ponderosa pine, large sawtimber, with no other species making up 20% or more of the cubic-foot volume of the stand, poorly stocked.
RP3, d =	Residual (partially cut) ponderosa pine, small sawtimber, medium stocked, having a plurality of cubic-foot volume in ponderosa pine but with more than 20% of the volume in Douglas-fir, medium stocked.
PL D1 = 10	A planted stand of seedling and sapling Douglas-fir medium stocked, 10 years old.

Symbol	Description
F D1+=120	A fire killed stand of merchantable Douglas- fir, large sawtimber, medium stocked, 120 years in age.
D4=140	Douglas-fir, large sawtimber medium stocked,

WT 3/ A 140 years in age with three windthrown trees per acre.

A two-story Douglas-fir stand. Upperstory is large sawtimber, over 300 years in age, poorly stocked. The understory is small sawtimber, medium stocked, 70 years in age.

A dual stand of Douglas-fir with an over-D3, IC, P = 20 - 140 story of large sawtimber, poorly stocked and understory of Douglas-fir poletimber in combination with at least 20% of incense cedar and ponderosa pine, medium stocked varying in age from 20 years to 140 years.

#### E. COMMERCIAL FOREST COLOR CODE

Pacific Northwest should use color codes recommended by Pacific Northwest Forest Experiment Station.

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PART 2

OTHER WESTERN STATES

FOREST CLASSIFICATION



## A. FOREST STAND CLASSIFICATIONS AND SYMBOLS

## I. Forest Types and Symbols

Type Symbol	Local Type Name
	Douglas-fir
D	_
P	Ponderosa pine
LP	Lodgepole pine
L	Western Larch
S	Spruce (Engelmann, Blue, Black Hills)
DS	Dead Spruce
SF (Optional)	Spruce fir (Spruce and/or true fir)
C	Cedar
WF	White fir
W	White pines
WLP	Whitebark, Limber and Bristlecone pine
AF	Alpine and Corkbark fir
PJ	Pinon-juniper
A	Aspen
Co	Cottonwood
C	Chaparral
OH	Other Hardwood
MH	Mountain Hemlock
SS	Sitka Spruce
WS	White Spruce
BS	Black Spruce
WB	White Birch
s/B	White Spruce - White Birch

#### II. Stand-Size Classes and Symbols

Symbol	Stand-Size Class	Description
6	Nonstocked and deforested	Forest Land Less than 10% stocked
7	Seedling and saplings	0 - 4.99 in. d.b.h.
8	Poletimber	5.0 - 10.99 in. d.b.h.
9	Sawtimber	11.0 + in. d.b.h.

#### III. Density Classes and Symbols

Symbol	(Optional)*	Description
-	P	10 - 39% crown closure
=	М	40 - 6% crown closure
=	W	70+% crown closure

<sup>\*</sup> Symbol used must be consistent throughout state. Show first for all trees and then for sawtimber if sufficiently important.

### B. FOREST LAND CLASSES AND SYMBOLS

## I. Commercial Forest Lands

Commercial forest stands will show the forest type, stand size, and density; e.g. P8 = ; optional: P8M

#### II. Noncommercial-Productive Forest Lands

Show by forest type, stand size and density preceded by the prefix (R); e.g. (R)P8 = ; optional: (R)P8M

#### III. Noncommercial-Unproductive Forest Lands

Show by forest type, stand size, and density preceded by the prefix (N), e.g. (N)P7 =; optional: show by forest type only preceded by the prefix (N), e.g. (N)P.

#### C. NON-FOREST LANDS

Symbol	Description
WO	Water - under 40 acres
ONF	Other non-forest

$\mathbb{D}$ .	USE OF T	TYPE SYMBO	LS WITH EXAMP	LES
	Symbol	(Optional)		Description
	P9≘	P9WM		Ponderosa pine type, sawtimber, well stocked by all crowns, medium stocked by sawtimber crowns.
	D8=	D8M		Douglas-fir type, poletimber stand, medium stocked by all crowns.
	P6			Ponderosa pine type, nonstocked or deforested.
	(N)PJ			Pinon-juniper type, noncommercial unproductive forest land.
	(R)LP8=	(R)LP8M		Lodgepole pine type, poletimber, medium stocked by all crowns, noncommercial - productive.
Ε.	COLOR CO	DE FOR FO	REST TYPE CLAS	SSIFICATIONS
	Cover Tyr Class Symbol	pe —	Stand Size Class Symbol	LEGEND AND PENCIL COLOR
	D		CONIFERS	Horigontal Line D25

<u>CC</u>	NLFERS		
D	6	Horizontal Line	D354
(Douglas Fir)	7	Vertical Line	D354
	8	Cross Hatch	D354
	9	Solid	D354
P	6	Horizontal Line	D324
(Ponderosa Pine)	7	Vertical Line	D324
	8	Cross Hatch	D324
	9	Solid	D324

Horizontal Lines D351

D351

D351

Vertical Lines

Cross Hatch

6

8

LP- - - -(Lodgepole Pine)

Cover Type Class Symbol	Stand Size Class Symbol	Legend A	IND PENCIL COLOR	/
	CONIFERS (Cont.)			
L	- 6		Horizontal Lines	D331½
(Western Larch)	7		Vertical Lines	D331½
	8		Cross Hatch	D331½
	9		Solid	D331½
S	- 6		Horizontal Line	D320
(Spruce)	7		Vertical Line	D320
	8		Cross Hatch	D320
	9		Solid	D320
C	- 6		Horizontal Lines	D325
(Cedar)	7		Vertical Lines	D325
	8		Cross Hatch	D325
	9		Solid	D325
WF	- 6		Horizontal Lines	D350
(White Fir)	7		Vertical Lines	D350
	8		Cross Hatch	D350
	9		Solid	D350
W	- 6		Horizontal Lines	D323½
(White Pine)	7		Vertical Lines	D323½
	8		Cross Hatch	D323½
	9		Solid	D323½

Cover Type Class Symbol	Stand Size Class Symbol	LEGEND	AND PENCIL COLOR	/
	CONTEERS (Con	<u>t.</u> )		
AF	- 6		Horizontal Lines	D323
(Alpine and Corkbark Fir)	7		Vertical Lines	D323
COTROBER FIT)	8		Cross Hatch	D323
	9		Solid	D323
PJ (Pinyon-Juniper)			Cross Hatched Dashed	D321
	HARDWOODS			
A	- 6		Horizontal Lines	D353½
(Aspen)	7		Vertical Lines	D353½
	8		Cross Hatch	D353½
	9		Solid	D353½
Co	- 6		Horizontal Lines	D322
(Cottonwood)	7		Vertical Lines	D322
	8		Cross Hatch	D322
	9		Solid	D322
C (Chaparral)			Vertical Dashed	D321
OH	- 6		Horizontal Lines	D352½
(Other Hardwoods)	7		Vertical Lines	D352½
	8		Cross Hatch	D352½
	9		Solid	D352½

Cover Type Class Symbol	Stand Size Class Symbol	LEGEND A	ND PENCIL COLOR	1/
No	ON-FOREST			
OW (Water)			Solid	D320½
ONF (Other Non For	rest)		Uncolored	

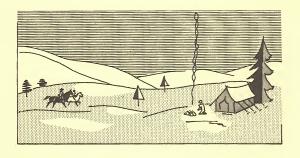
1/ D refers to colored pencil Dixon

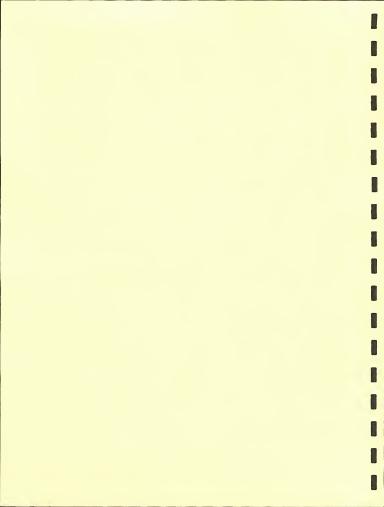
Alaska may develop their own color code based on the approach shown above.

SECTION

D

## RECREATION

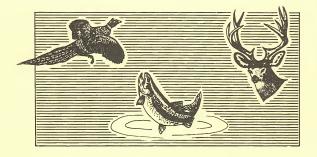




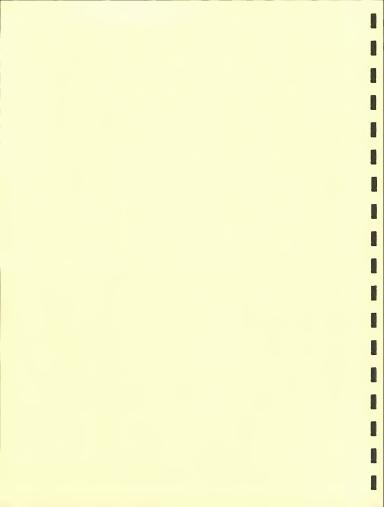
## SECTION



## WILDLIFE



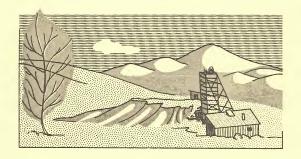
RELEASE 9-28

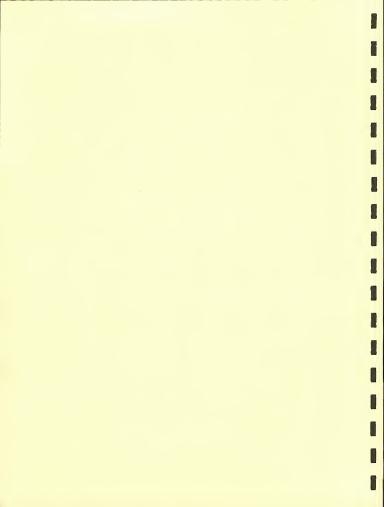


## SECTION

F

## MINERALS

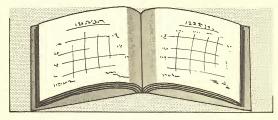




SECTION **G** 

# RECORDS

## IMPROVEMENT

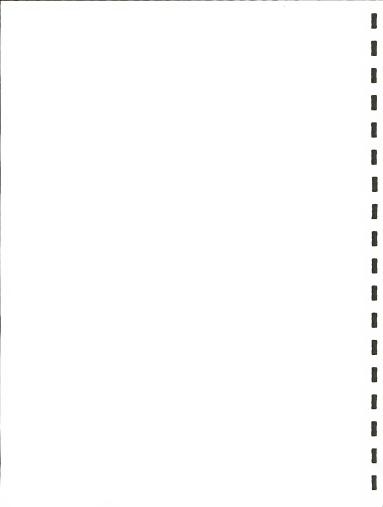




## LAND STATUS LEGEND

GROUP TWO

THE GROUP TWO LAND STATUS LEGEND (IN CONJUNCTION WITH GROUP ONE) PROVIDES THE NECESSARY MAP SYMBOL IDENTIFICATION TO SATISFY ALL ESSENTIAL LAND STATUS RECORDATION REQUIREMENTS. GROUP ONE IS PRIMARILY CONCERNED WITH AND APPLICABLE TO THE BUREAU'S FOUR BASIC SERIES MAPS, WHEREAS GROUP TWO IS INTENDED FOR USE IN SPECIAL PURPOSE MAPPING, REPORTS, AND SIMILAR ENDEAVORS DEMANDING DETAILED LAND STATUS SYMBOLIZATION. THE SYMBOLS SHOWN ON THE FOLLOWING PAGES COMPLETE SECTION H.



## LAND STATUS LEGEND

## GROUP TWO

## BASIC OWNERSHIP

DESCRIPTION	LETTER SYMBOL
FEDERAL (Other than PD)	F
STATE	s
PRIVATE OR LOCAL GOVERNMENT	NONE

#### "ZONES" AND CLASSIFICATIONS

BLM RECREATION SITE	Z3
BUFFER OR SCENIC ZONE	Z9
JOINT RECREATION SITE	Z5
POTENTIAL TRANSFER TRACT	Z6
RECREATION AND PUBLIC PURPOSES ACT CLASSIFICATION	Z10
RECREATION AREA	Z2
RECREATION COMPLEX	Zl
RECREATION HOMESITE LEASE AREA	Z4
RECREATION MANAGEMENT CLASSIFICATION	Z11
RECREATION RESERVE SITE	z7
SMALL TRACT CLASSIFICATION	Z13
TRANSFER TRACT	Z8
WILDLIFE MANAGEMENT CLASSIFICATION	Z12
CLASS. & M.U. ACT -DISP. OVER 2560a	C&MU-D
CLASS. & M.U. Act - RETENTION	C&MU-R

## GROUP TWO

## ADMINISTRATIVE UNITS

DESCRIPTION	LETTER SYMBOL
GENERAL ORDERS OF WITHDRAWAL	NGO
GRAZING DISTRICT	NGD
INDIAN LANDS OR RESERVATION	NIR
MILITARY RESERVATION	NMR
OREGON AND CALIFORNIA REVESTED LANDS	NO&C
NATIONAL FOREST	NF
NATIONAL GRASSLANDS	NGL
NATIONAL MONUMENT	NM
NATIONAL PARK	NP
NATIONAL RECREATION AREA	NRA
RECLAMATION PROJECT	NRP
WILDLIFE REFUGE	NWR
BEST BLOCKED PLANNING UNIT	PU I
FRAGMENTED PLANNING UNIT	PU II
SPECIALIZED COOPERATIVE PLANNING UNIT	PU III
TRANSFER PLANNING UNIT	PU IV
DEFERRED ACTION PLANNING UNIT (OREGON)	PU V
RESOURCE CONSERVATION AREA	RCA
RESOURCE AREA	RA

## GROUP TWO

RESERVATIONS AND WITHDRAWAL APPLICATIONS

DESCRIPTION	LETTER SYMBOL
BLM WITHDRAWAL	RBLM
BLM WITHDRAWAL APPLICATION	RBLMA
BUREAU OF SPORTS FISHERIES AND WILDLIFE WITHDRAWAL	RBSFW
BUREAU OF SPORTS FISHERIES AND WILDLIFE WITHDRAWAL APPLICATION	RBSFWA
FOREST SERVICE WITHDRAWAL	RFS
FOREST SERVICE WITHDRAWAL APPLICATION	RFSA
MILITARY WITHDRAWAL	RM
MILITARY WITHDRAWAL APPLICATION	RMA
OIL SHALE	ROS
STOCK DRIVEWAY	RSD
RECLAMATION WITHDRAWAL - FIRST FORM	RBR1
RECLAMATION WITHDRAWAL APPLICATION - FIRST FORM	RBRA1
RECLAMATION WITHDRAWAL - SECOND FORM	RBR2
RECLAMATION WITHDRAWAL APPLICATION - SECOND FORM	RBRA2
UNRESERVED LANDS	v

#### GROUP TWO

NON-MINERAL RESERVATIONS (Water & Power)

DESCRIPTION	LETTER SYMBOL
POWER SITE CLASSIFICATION	RPSC
POWER SITE DESIGNATION	RPSD
POWER SITE RESERVATION	RPSR
POWER SITE WITHDRAWAL	RPSA
PUBLIC WATER RESERVE	RPWR
PUBLIC WATER WITHDRAWAL APPLICATION	RPWA
RESERVOIR SITE	RRS

NON-MINERAL RESERVATIONS (Rights-of-Way)

APPROPRIATIONS UNDER 44 L.D. 513	R11
DITCH OR CANAL	R7
HIGHWAY OR ROAD	R2
MATERIAL SITE	R9
OTHER RIGHTS-OF-WAY UNDER PART 244, 43 CFR (specify)	R10
PIPELINE	R3
POWER TRANSMISSION LINE	R5
RADIO OR TV INSTALLATION	R6
RAILROAD	R1
RANGE IMPROVEMENTS	R12
RESERVOIR	R8
TELEPHONE OR TELEGRAPH	R4

## GROUP TWO

#### MINERAL RESERVATIONS

DESCRIPTION	LETTER SYMBOL
ALL LEASABLE AND LOCATABLE MINERALS RESERVED UNDER ACT OF 12-29-16	MR10
ALL LEASABLE MINERALS	MR7
ALL MINERALS RESERVED UNDER ACT OF 6-1-38	MR11
ALL MINERALS RESERVED UNDER RECREATION AND PUBLIC PURPOSES ACT	MR12
ASPHALTIC MINERALS RESERVED	MR2
COAL RESERVED UNDER 1909 OR 1910 ACTS	MR9
NITRATE	MR3
NO MINERAL RESERVATION	MRO
OIL AND GAS	MR1
PHOSPHATE	MR4
POTASH	MR5
PRIVATELY OWNED AS TO SURFACE, ALL MINERALS RESERVED	MR8
SODIUM AND SULPHUR	MR6
SURFACE AND MINERALS PRIVATELY OWNED	MR13
SURFACE, ONLY	MRS ~
SURVEYED, UNPATENTED MINING CLAIM	MRC

#### GROUP TWO

#### LEASES AND PERMITS

DESCRIPTION	LETTER SYMBOL
OTHER LEASE	L4
OTHER PERMIT	P2
PUBLIC WORKS ACT LEASE	L1
RECREATION AND PUBLIC PURPOSES ACT LEASE	L3
SMALL TRACT ACT LEASE	L2
SPECIAL LAND USE PERMIT	P1

#### OTHER APPLICATIONS AND ENTRIES

DESERT LAND PETITION-APPLICATION	A1
DESERT LAND ENTRY	El
HOMESTEAD PETITION-APPLICATION	A2
HOMESTEAD ENTRY	E2
MINERAL PATENT APPLICATION	A7
OTHER APPLICATION (Not including withdrawal)	A8
PUBLIC SALE PETITION-APPLICATION	A5
RECREATION AND PUBLIC PURPOSES ACT PETITION-APPLICATION	A4
SMALL TRACT PETITION-APPLICATION	A3
SPECIAL LAND USE APPLICATION	A6
PUBLIC LAND SALE ACT PETITION-APPLICATION	A9

## GROUP TWO

#### AGENCIES

DESCRIPTION	LETTER SYMBOL
AIR FORCE	USAF
ARMY	USA
BUREAU OF INDIAN AFFAIRS	USBIA
BUREAU OF LAND MANAGEMENT	USBLM
BUREAU OF RECLAMATION	USBR
BUREAU OF SPORTS FISHERIES AND WILDLIFE	USBSFW
CORPS OF ENGINEERS	USCORPS
DEPARTMENT OF DEFENSE	USDEF
FOREST SERVICE	USFS
GENERAL SERVICES ADMINISTRATION	USGSA
NATIONAL PARK SERVICE	USNPS
NAVY	USN
STATE DEPARTMENT OF FORESTRY	SF
STATE GAME AND FISH DEPARTMENT	SGF
STATE LAND BOARD	SLB
STATE PARK AND RECREATION BOARD	SPRB

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Form

(Continued on reverse)

